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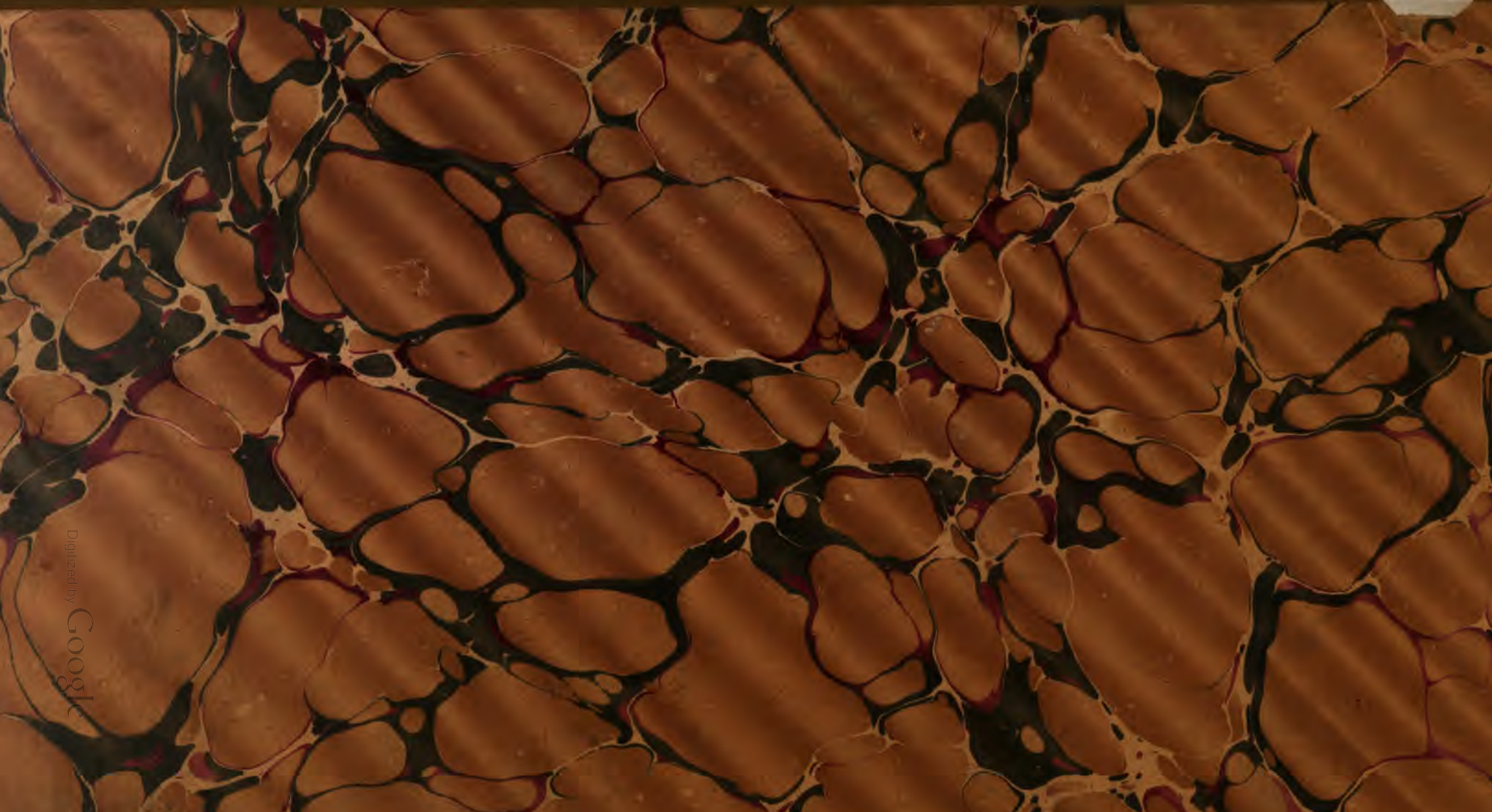
Sikes's Table of the Concentrated Strength · 1860

Phys 440 22



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To J. L. Goodale

from his affectionate friend,

John S. Middlemore.

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# SIKES'S TABLE

OF THE

# CONCENTRATED STRENGTH

OF

# SPIRITS;

WITH

## DIRECTIONS FOR THE USE

OF HIS

# Hydrometer,

ESTABLISHED THROUGHOUT THE UNITED KINGDOM, FOR ESTIMATING THE DUTIES ON SPIRITUOUS LIQUORS,

## BY ACT OF PARLIAMENT,

58 GEO. III. CAP. 28.

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LONDON:
J. D. POTTER, 31, POULTRY,
SUCCESSOR TO THE LATE R. B. BATE,
HYDROMETER & SACCHROMETER MANUFACTURER.

1860.

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# DESCRIPTION

OF THE

# HYDROMETER, TABLE,

&c., &c.

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THE HYDROMETER consists of a spherical Ball or Float, and an upper and a lower Stem; the upper Stem has 10 principal Divisions, numbered 1, 2, 3, &c., which are subdivided into five parts; and the lower Stem is made conical, to admit of the Weights being readily slipped on at the top, and also of their resting firmly at the bottom of it. The Instrument is adjusted to spirits of a very high degree of strength, and sets out therein at Zero, or Division 0, without a Weight. As the density or weight of the spirits *increases* in proportion to their *decrease* in strength, the Hydrometer will not sink so low in weaker spirits, but will float at some point of the Stem below Zero, unless they be of much inferior strength, when the Stem will remain entirely out of the spirits, and the addition of one of the Weights will become necessary to sink it. There are nine of these Weights, each representing so many principal Divisions of the Stem as its number indicates; thus, Weight 10 is equivalent to 10 Divisions, and, being used when Division 10 appears just above the surface of the Sample, will sink the Stem to the same point below 0; the Weight 20 is in like manner equivalent to 20 principal Divisions, and so on to 90, which finishes in water at Division 10. The whole range of the Instrument thus consists of 100 principal Divisions, which are subdivided into 5 parts of two-tenths of a Division each, called .2, .4, &c., according to their value; these together subdivide the range from pure Alcohol to Water into 500 equal parts.

The line on the edge of the Stem near Division 1 is the point to which the Weight 60 sinks the Hydrometer in spirits exactly of the *Strength of Proof*, at 51° Temperature: the square weight or cap being applied at the top of the Stem will, with the above-named Weight, sink the Hydrometer to the same point in distilled water of the same Temperature; and being exactly one-twelfth part of the total weight of the Hydrometer and Weight 60, confirms the definition of Proof Spirit given in the Act of Parliament

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for establishing this Hydrometer, which states *Sikes's Proof Spirit to weigh at* 51° *Temperature, exactly twelve-thirteenth parts of an equal bulk of distilled water;* and this cap may be at any time so employed to determine the fitness of the Instrument for use.

THE THERMOMETER will show the Temperature of the Hydrometer, as well as of the sample, and a correct knowledge of the Temperature of each is necessary to the true estimation of the Strength of the latter; the bulb is stripped of its usual encumbrance of metal to facilitate the immediate action of the mercury, and the Scale is of transparent Ivory to admit of its being read without taking it out of the liquor: the divisions are single degrees of Fahrenheit, which are intended to be subdivided by the eye when required.

THE TABLE shows the Concentrated Strength appertaining to each Division and Subdivision of the Stem for every degree of Temperature from 30° to 80°, to a single tenth of strength per cent., so that 500 given points of strength in each degree of Temperature may be had by bare inspection. It is divided into five Sections, each comprising the strength for eleven degrees of Temperature (the last columns being repeated in the succeeding Section), and each has ten pages, which give the entire range of the Hydrometer, and its nine Weights through those Temperatures: by attending to this arrangement, and opening the Table accordingly, it will hardly ever become necessary to consult more than one Section through the same parcel of samples, and it will frequently occur that the required strengths may all be found in the same opening. This arrangement also affords the ready means of proportioning the strength to any intermediate part of a degree of Temperature when required, and exhibits, with curious accuracy, the curves or relative proportions in which the several strengths are affected by a change of Temperature.

THE SLIDING RULE has three edges of its slide divided so as to represent the Divisions and Subdivisions of the Stem, and marked INDICATION, at the end of which is a Star or Index; these lines read, as numbered, from right to left, each being a continuation of the preceding: on the edges of the sides opposite to them are set the corresponding Strengths in whole per cents. sufficiently open to admit of their being read to tenth parts by the eye. The letter P. represents the Proof point, and the Strengths are to be

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estimated in the order of their numbers, right and left from this point, for Over and Under Proof, as designated on the edges of these sides. The left end of the first side of the Rule, numbered 30 to 80, and marked Thermometer Scale, refers only to the Temperature ascertained by that Instrument, and described above. The finely-divided lines on the fourth edges of the slide and side are logarithmic numbers, usually called multiplying lines, but so arranged as to admit of a single radius performing the office commonly assigned to two, which affords double the usual length to each several division.

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## USE OF THE HYDROMETER, &c.

First observe the Temperature of the Thermometer on taking it out of the box, where, being kept with the Hydrometer, it may be presumed to show its temperature also; and if, upon immersion into the sample, the mercury be found to stand precisely the same as before immersion, this will be the correct TEMPERATURE, and the sample as well as the Instruments, will be precisely in the state most favourable to a true result.

Then immerse the Hydrometer, press it downwards till the whole divided part of the stem be wet; observe the pressure or force required to sink it, and select such Weight as seems the nearest equivalent for that pressure; gently slip that Weight on the lower Stem of the Hydrometer, the small ball being still in or wet with the spirit; again immerse it, see that the whole be free from air bubbles, and pressing it down as before to Division 0, let it slowly rise, and allow about half a minute for its settling. Bring the eye to the *level* of the surface of the sample, note what part of the Stem be cut by that surface, *as seen from below*, and add such part or Division to the number of the Weight for the INDICATION.

But if, upon immersing the Thermometer, the mercury have any tendency to motion, the Hydrometer will obviously be of a different Temperature to the Spirits; lay it therefore out of the box, and gently stirring the liquor with the Thermometer, wait till the mercury becomes quite stationary, bring the eye to a position exactly opposite the edge or surface of the mercury, and note the point at which it rests for the true TEMPERATURE; then, taking out the Thermometer, immerse the Hydrometer with its proper

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Weight on, allow about the same time for it to acquire the Temperature of the liquor, press it down to Division 0, and note the INDICATION as before directed.

When the mercury in the Thermometer does not stand at any whole Division or degree, its precise point should, in strictness, be estimated by the portion of a degree at which it stands above it; thus, supposing it to be between 53° and 54°, if one-tenth of a degree above 53°, it should be called 53.1°, if two-tenths above, 53.2°, and so on to nine-tenths, when it should be called 53.9° for the true TEMPERATURE.

In like manner, if the level of the surface, seen from below, do not cut the Stem of the Hydrometer at any Division or Subdivision, but at a point between any two of them, the distance of such point from the Division or Subdivision above it should be estimated and added thereto for the true INDICATION.

But it will be found sufficiently correct, for practice, to take the nearest whole degree of the Thermometer, when the mercury stands between any two of them, for the TEMPERATURE; and also the Division or Subdivision of the Stem nearest to the *level* of the surface of the liquor for the INDICATION, observing always that this can only be correctly seen from below.

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## FOR THE STRENGTH.

### BY THE TABLE.

Turn to that section of the Table headed with the given TEMPERATURE, and seek the given INDICATION amongst the numbers in the marginal columns; upon the same line, under the degree of Temperature, will be found the Strength; thus, at 50° Temperature, 45 Indication gives 22.8, 45.2 gives 22.5, 45.4 gives 22.2, and 45.6 gives 22 per cent. Over Proof; those Strengths, in each Section, which precede the zigzag line, being OVER PROOF, and those which succeed it UNDER PROOF.

### BY THE SLIDING RULE.

Set the Star upon the slide to the given TEMPERATURE on the Thermometer Scale, opposite to the given INDICATION will be

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found the Strength, and the Rule so set becomes a Table for that Temperature, the Strength being throughout given opposite to its correspondent Indication : thus, if the Star be set to 50° Temperature, 45 Indication gives 22.8 per cent. Over Proof, 45.2 gives 22.5, and 45.6 gives 22 per cent. Over Proof.

The Strength is expressed in numbers, denoting the excess or deficiency per cent. of Proof Spirit in any sample, by the actual produce which would be found on its reduction to Proof; and each of these numbers (having its decimal point removed two places to the left) becomes a factor, whereby the gauged content of a cask or vessel of such spirit being multiplied, and the product being *added* to that gauged content if Over Proof, or *deducted* from it if Under Proof, the result will be the actual quantity of Proof Spirit contained in such cask or vessel.

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## EXAMPLES.

1. In Spirits of 50° Temperature, if the Hydrometer require the Weight 40 to sink the Stem, and float it with Division 5 precisely cut by the level of the surface, the INDICATION will be 40 + 5, or 45, which, in the Table under 50° Temperature, gives 22.8 per cent. Over Proof. Or, if Division 5 be not in the level but above it, and the next subdivision be nearer to that level, the Indication may be taken at that subdivision, viz., 5.2 + 40 = 45.2, which gives the Strength = 22.5 per cent. Over Proof.

For the OVER PROOF and total QUANTITY of PROOF SPIRIT. If the gauged content be 132 gallons, that number multiplied by .225 (the Strength, with its decimal point removed two places to the left) will give 29.7 for the OVER PROOF to be *added* to the gauged content, viz., 132 + 29.7 = 161.7 gallons for the total QUANTITY of PROOF SPIRIT contained in, or which would be produced by the 132 gallons on reduction to Proof.

Or, by the Sliding Rule. Set the Star on the slide to the given TEMPERATURE, viz., 50° on the Thermometer Scale, opposite the INDICATION 45.2, will be had the Strength = 22.5 per cent. Over Proof.

For the OVER PROOF, &c. Turn to the line of numbers on the back of the Rule, set Unity on slide to .225 upon the side, opposite

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the gauged content on slide, viz., 132, will be given the OVER PROOF = 29.7 to be *added* thereto for the PROOF SPIRIT = 161.7 gallons. Or, set Unity on slide to 1.225 (which represents the Proof Spirit in 1 gallon of Spirits, 22.5 per cent. Over Proof) upon the side, opposite to 132 upon the slide will be 161.7.

---

2. In Spirits of 67° Temperature, if the Weight 70 be required, and the Stem float with Division 1 and Subdivision .2 nearest to the level of the surface, the INDICATION will be 71.2, which in the Table, under 67° gives 24.0 per cent. Under Proof. If the gauged content be 3675 gallons, multiply that quantity by .24 (the Strength, with its decimal point removed as before) the product 882, will be the UNDER PROOF, which *deducted* from the gauged content 3675, will give 2793 gallons for the Proof Spirit contained therein.

Or, by the Sliding Rule. Set the Star on the slide to 67° on the Thermometer Scale, opposite 71.2 will be 24 per cent. Under Proof; set Unity on slide to .24 on side, and it will be found that the gauged content 3675, falls off the Rule: set therefore .24 on *slide* to 10, which also represents Unity, upon the *side*, opposite 3675 on *side* will be had 882 upon the *slide*, for the UNDER PROOF to be *deducted* from 3675 = 2793 for the Proof Spirit. Or, set Unity on slide to .76 (the Proof Spirit in 1 gallon of Spirit 24 per cent. Under Proof) upon the side, opposite 3675 on slide, will be had 2793 for the Proof Spirit.

---

But as, in strictness the precise points of Temperature and Indication should be taken, and the true Strength estimated accordingly, as directed in page (6), let us suppose the precise Temperature in the first Example to have been 50.4°, then as Indication 45.2 gives 22.5 Strength at 50°, and 22.2 at 51°, the difference .3 is to be multiplied by the difference of Temperature, viz., .4°, and the product .12 *deducted* from 22.5 gives 22.38 = 22.4 per cent. OVER PROOF for the true Strength.

Or, by the Sliding Rule. Set the Star on slide to 50.4° or .4 to the left of 50 on the Thermometer Scale, opposite Indication 45.2 will be 22.4 per cent. Over Proof.

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And further, if the Indication, instead of being taken at 45.2, had been more nearly estimated at 45.3, the difference of Strength between 45.2 and 45.4 Indication being .3, half that difference, viz, .15, must have been further *deducted* from the approximated Strength 22.38, and the true Strength would have been 22.23 per cent. OVER PROOF; as seen immediately on the Sliding Rule, where the Star being set to 50.4°, the Strength opposite 45.3 Indication is 22.23.

---

## GENERAL REMARKS.

As in trying the Strength of Spirits it is particularly necessary to a true result, that the Temperature of all the means employed should be uniform; it is recommended to set the Hydrometer, Thermometer, Proof Glass, and Samples together for some time previously, in the place where they are intended to be used. And that this equality of Temperature, when produced, may not be disturbed, it will be right to avoid handling the Sample Bottles and Proof Glass more than absolutely necessary; taking hold of the neck of the bottle only, and holding the Proof Glass principally by its foot.

But this circumspection will not be availing till the very prevalent practice of laying the Hydrometer down upon the board wet, as taken out of the Sample, shall be discontinued. The evaporation of the Spirit upon the surface induces such a degree of cold, and consequent reduction of bulk in the Hydrometer, as to occasion an error, on the second immersion, amounting frequently to .5 per cent. of Strength. The effect of this evaporation is strikingly displayed by the Thermometer, which, when laid down wet, as taken out of the sample, may be observed to cool 5 degrees or upwards, according to the Strength of the liquor. This error may be best avoided by having another glass of the same liquor to receive the Hydrometer on its being taken out of the Sample under trial.

It is further recommended that the Proof Glass should be raised nearly to a level with the eye, in order that the latter may be brought precisely to it without inconvenience; for if the eye be above that level, it will not be seen; and if below it, the Indication of the Hydrometer cannot be read correctly.



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The Temperature and Indication will also most conveniently be seen, when the Proof Glass is placed between the light and the eye; and a white card or reflector (held somewhat below the level of the surface of the liquor, and parallel to the face of the Stem, but inclined upwards to meet the light) will be found very useful, particularly in highly-coloured liquor, as brandy.

The range of the Sliding Rule has been limited for the sake of accuracy, the usual application of widely different Strengths to one or two Scales of expansion being quite incompatible therewith, as may be readily perceived by the great difference between the proportions in which very strong and very weak liquors are affected by an *equal* change of Temperature; see the top of page 1 of the Table, where it may be observed that the variation of 10° of Temperature is nearly equivalent to 3 whole Divisions of Indication, in Spirits 70 per cent. Over Proof, whilst, at the bottom of page 10, or in water, the effect of expansion, through the same 10° of Temperature, is not equivalent to a single subdivision of Indication.

The multiplying lines upon the Rule are capable of extensive application, and their use will be enlarged upon in a Treatise on the reduction and compounding of Spirits, written by Mr. Sikes, and which is now preparing for the press; but it is desirable here to notice the utility of these lines in finding the quantity of spirits at a required strength, proportionate to a given quantity of spirits at a known strength. For example: if it be required to find what quantity of 7 per cent. Over Proof is contained in 2360 gallons of 8 per cent. Over Proof, set 1.07 on slide to 1.08 on side, opposite 2360 on slide, is 2382 gallons. Or, if the quantity had been 8670 gallons, it would have fallen off the rule so set; therefore, set 1.07 on slide to 8670 on side, and opposite 1.08 on slide, will be 8751 gallons. Also, if it be required to find what quantity of Spirits 28 per cent. Under Proof is contained in 738 gallons of 9 per cent. Over Proof, set 1.09 on slide to .72 on side, opposite 738 on slide, is 1117 gallons.

Each of the Instruments is registered, so that any of the Weights may be replaced when lost, by stating the number of the Instrument which requires them.

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# SIKES'S

## TABLE

OF THE

## CONCENTRATED STRENGTH

OF

# SPIRITS,

## TEMPERATURE

30° TO 40°.

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 0 | — | — | — | — | — | — | — | — | — | — | — | 0 |
| .2 | — | — | — | — | — | — | — | — | — | — | — | .2 |
| .4 | — | — | — | — | — | — | — | — | — | — | — | .4 |
| .6 | — | — | — | — | — | — | — | — | — | — | — | .6 |
| .8 | — | — | — | — | — | — | — | — | — | — | — | .8 |
| 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| .2 | — | — | — | — | — | — | — | — | — | — | — | .2 |
| .4 | — | — | — | — | — | — | — | — | — | — | — | .4 |
| .6 | — | — | — | — | — | — | — | — | — | — | — | .6 |
| .8 | — | — | — | — | — | — | — | — | — | — | — | .8 |
| 2 | — | — | — | — | — | — | — | — | — | — | 69.9 | 2 |
| .2 | — | — | — | — | — | — | — | — | — | 69.9 | 69.7 | .2 |
| .4 | — | — | — | — | — | — | — | — | 70.0 | 69.8 | 69.5 | .4 |
| .6 | — | — | — | — | — | — | — | 70.0 | 69.8 | 69.6 | 69.4 | .6 |
| .8 | — | — | — | — | — | — | — | 69.9 | 69.7 | 69.4 | 69.2 | .8 |
| 3 | — | — | — | — | — | — | 70.0 | 69.7 | 69.5 | 69.3 | 69.0 | 3 |
| .2 | — | — | — | — | — | 70.0 | 69.8 | 69.5 | 69.3 | 69.1 | 68.8 | .2 |
| .4 | — | — | — | — | — | 69.8 | 69.6 | 69.4 | 69.2 | 69.0 | 68.7 | .4 |
| .6 | — | — | — | — | 69.9 | 69.7 | 69.5 | 69.2 | 69.0 | 68.8 | 68.5 | .6 |
| .8 | — | — | — | 70.0 | 69.8 | 69.5 | 69.3 | 69.1 | 68.9 | 68.7 | 68.4 | .8 |
| 4 | — | — | 70.0 | 69.8 | 69.6 | 69.3 | 69.1 | 68.9 | 68.7 | 68.5 | 68.2 | 4 |
| .2 | — | — | 69.8 | 69.6 | 69.4 | 69.1 | 68.9 | 68.7 | 68.5 | 68.3 | 68.0 | .2 |
| .4 | — | 69.9 | 69.6 | 69.4 | 69.2 | 69.0 | 68.8 | 68.6 | 68.3 | 68.1 | 67.9 | .4 |
| .6 | 70.0 | 69.8 | 69.5 | 69.3 | 69.1 | 68.8 | 68.6 | 68.4 | 68.2 | 68.0 | 67.7 | .6 |
| .8 | 69.8 | 69.6 | 69.3 | 69.1 | 68.9 | 68.7 | 68.5 | 68.3 | 68.0 | 67.8 | 67.6 | .8 |
| 5 | 69.6 | 69.4 | 69.1 | 68.9 | 68.7 | 68.5 | 68.3 | 68.1 | 67.8 | 67.6 | 67.4 | 5 |
| .2 | 69.4 | 69.2 | 68.9 | 68.7 | 68.5 | 68.3 | 68.1 | 67.9 | 67.6 | 67.4 | 67.2 | .2 |
| .4 | 69.3 | 69.0 | 68.8 | 68.6 | 68.4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.3 | 67.0 | .4 |
| .6 | 69.1 | 68.9 | 68.6 | 68.4 | 68.2 | 68.0 | 67.8 | 67.6 | 67.3 | 67.1 | 66.9 | .6 |
| .8 | 69.0 | 68.7 | 68.5 | 68.3 | 68.1 | 67.9 | 67.6 | 67.4 | 67.2 | 67.0 | 66.7 | .8 |
| 6 | 68.8 | 68.5 | 68.3 | 68.1 | 67.9 | 67.7 | 67.4 | 67.2 | 67.0 | 66.8 | 66.5 | 6 |
| .2 | 68.6 | 68.3 | 68.1 | 67.9 | 67.7 | 67.5 | 67.2 | 67.0 | 66.8 | 66.6 | 66.3 | .2 |
| .4 | 68.4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.3 | 67.1 | 66.8 | 66.6 | 66.4 | 66.2 | .4 |
| .6 | 68.3 | 68.0 | 67.8 | 67.6 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 | 66.3 | 66.0 | .6 |
| .8 | 68.1 | 67.9 | 67.6 | 67.4 | 67.2 | 67.0 | 66.8 | 66.5 | 66.3 | 66.1 | 65.9 | .8 |
| 7 | 67.9 | 67.7 | 67.4 | 67.2 | 67.0 | 66.8 | 66.6 | 66.3 | 66.1 | 65.9 | 65.7 | 7 |
| .2 | 67.7 | 67.5 | 67.2 | 67.0 | 66.8 | 66.6 | 66.4 | 66.1 | 65.9 | 65.7 | 65.5 | .2 |
| .4 | 67.6 | 67.3 | 67.1 | 66.9 | 66.7 | 66.5 | 66.2 | 66.0 | 65.8 | 65.6 | 65.3 | .4 |
| .6 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 | 66.3 | 66.1 | 65.8 | 65.6 | 65.4 | 65.2 | .6 |
| .8 | 67.3 | 67.0 | 66.8 | 66.6 | 66.4 | 66.2 | 65.9 | 65.7 | 65.5 | 65.3 | 65.0 | .8 |
| 8 | 67.1 | 66.8 | 66.6 | 66.4 | 66.2 | 66.0 | 65.7 | 65.5 | 65.3 | 65.1 | 64.8 | 8 |
| .2 | 66.9 | 66.6 | 66.4 | 66.2 | 66.0 | 65.8 | 65.5 | 65.3 | 65.1 | 64.9 | 64.6 | .2 |
| .4 | 66.7 | 66.5 | 66.3 | 66.0 | 65.8 | 65.6 | 65.4 | 65.1 | 64.9 | 64.7 | 64.5 | .4 |
| .6 | 66.6 | 66.3 | 66.1 | 65.9 | 65.7 | 65.5 | 65.2 | 65.0 | 64.8 | 64.6 | 64.3 | .6 |
| .8 | 66.4 | 66.2 | 66.0 | 65.7 | 65.5 | 65.3 | 65.1 | 64.8 | 64.6 | 64.4 | 64.2 | .8 |
| 9 | 66.2 | 66.0 | 65.8 | 65.5 | 65.3 | 65.1 | 64.9 | 64.6 | 64.4 | 64.2 | 64.0 | 9 |
| .2 | 66.0 | 65.8 | 65.6 | 65.3 | 65.1 | 64.9 | 64.7 | 64.4 | 64.2 | 64.0 | 63.8 | .2 |
| .4 | 65.9 | 65.6 | 65.4 | 65.1 | 64.9 | 64.7 | 64.5 | 64.2 | 64.0 | 63.8 | 63.6 | .4 |
| .6 | 65.7 | 65.5 | 65.3 | 65.0 | 64.8 | 64.6 | 64.4 | 64.1 | 63.9 | 63.7 | 63.5 | .6 |
| .8 | 65.6 | 65.3 | 65.1 | 64.8 | 64.6 | 64.4 | 64.2 | 63.9 | 63.7 | 63.5 | 63.3 | .8 |
| 10 | 65.4 | 65.1 | 64.9 | 64.6 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.3 | 63.1 | 10 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 65.4 | 65.1 | 64.9 | 64.6 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.3 | 63.1 | 10 |
| .2 | 65.2 | 64.9 | 64.7 | 64.4 | 64.2 | 64.0 | 63.8 | 63.5 | 63.3 | 63.1 | 62.9 | .2 |
| .4 | 65.0 | 64.8 | 64.5 | 64.3 | 64.1 | 63.9 | 63.6 | 63.4 | 63.2 | 63.0 | 62.7 | .4 |
| .6 | 64.9 | 64.6 | 64.4 | 64.1 | 63.9 | 63.7 | 63.5 | 63.2 | 63.0 | 62.8 | 62.6 | .6 |
| .8 | 64.7 | 64.5 | 64.2 | 64.0 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | 62.7 | 62.4 | .8 |
| 11 | 64.5 | 64.3 | 64.0 | 63.8 | 63.6 | 63.4 | 63.1 | 62.9 | 62.7 | 62.5 | 62.2 | 11 |
| .2 | 64.3 | 64.1 | 63.8 | 63.6 | 63.4 | 63.2 | 62.9 | 62.7 | 62.5 | 62.3 | 62.0 | .2 |
| .4 | 64.1 | 63.9 | 63.6 | 63.4 | 63.2 | 63.0 | 62.7 | 62.5 | 62.3 | 62.1 | 61.8 | .4 |
| .6 | 64.0 | 63.8 | 63.5 | 63.3 | 63.1 | 62.9 | 62.6 | 62.4 | 62.2 | 62.0 | 61.7 | .6 |
| .8 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | 62.7 | 62.4 | 62.2 | 62.0 | 61.8 | 61.5 | .8 |
| 12 | 63.6 | 63.4 | 63.1 | 62.9 | 62.7 | 62.5 | 62.2 | 62.0 | 61.8 | 61.6 | 61.3 | 12 |
| .2 | 63.4 | 63.2 | 62.9 | 62.7 | 62.5 | 62.3 | 62.0 | 61.8 | 61.6 | 61.4 | 61.1 | .2 |
| .4 | 63.2 | 63.0 | 62.7 | 62.5 | 62.3 | 62.1 | 61.9 | 61.6 | 61.4 | 61.2 | 60.9 | .4 |
| .6 | 63.1 | 62.9 | 62.6 | 62.4 | 62.2 | 62.0 | 61.7 | 61.5 | 61.3 | 61.1 | 60.8 | .6 |
| .8 | 62.9 | 62.7 | 62.4 | 62.2 | 62.0 | 61.8 | 61.6 | 61.3 | 61.1 | 60.9 | 60.6 | .8 |
| 13 | 62.7 | 62.4 | 62.2 | 62.0 | 61.8 | 61.6 | 61.4 | 61.1 | 60.9 | 60.7 | 60.4 | 13 |
| .2 | 62.5 | 62.3 | 62.0 | 61.8 | 61.6 | 61.4 | 61.2 | 60.9 | 60.7 | 60.5 | 60.2 | .2 |
| .4 | 62.3 | 62.1 | 61.9 | 61.6 | 61.4 | 61.2 | 61.0 | 60.7 | 60.5 | 60.3 | 60.0 | .4 |
| .6 | 62.2 | 62.0 | 61.7 | 61.5 | 61.3 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 59.9 | .6 |
| .8 | 62.0 | 61.8 | 61.6 | 61.3 | 61.1 | 60.9 | 60.7 | 60.4 | 60.2 | 60.0 | 59.7 | .8 |
| 14 | 61.8 | 61.6 | 61.4 | 61.1 | 60.9 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 14 |
| .2 | 61.6 | 61.4 | 61.2 | 60.9 | 60.7 | 60.5 | 60.3 | 60.0 | 59.8 | 59.6 | 59.3 | .2 |
| .4 | 61.4 | 61.2 | 61.0 | 60.7 | 60.5 | 60.3 | 60.1 | 59.8 | 59.6 | 59.4 | 59.1 | .4 |
| .6 | 61.3 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 60.0 | 59.7 | 59.5 | 59.3 | 59.0 | .6 |
| .8 | 61.1 | 60.9 | 60.7 | 60.4 | 60.2 | 60.0 | 59.8 | 59.5 | 59.3 | 59.1 | 58.8 | .8 |
| 15 | 60.9 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.6 | 59.3 | 59.1 | 58.9 | 58.6 | 15 |
| .2 | 60.7 | 60.5 | 60.3 | 60.0 | 59.8 | 59.6 | 59.4 | 59.1 | 58.9 | 58.7 | 58.4 | .2 |
| .4 | 60.5 | 60.3 | 60.1 | 59.8 | 59.6 | 59.4 | 59.2 | 58.9 | 58.7 | 58.5 | 58.2 | .4 |
| .6 | 60.4 | 60.2 | 60.0 | 59.7 | 59.5 | 59.3 | 59.0 | 58·8 | 58.6 | 58.3 | 58.1 | .6 |
| .8 | 60.2 | 60.0 | 59.8 | 59.5 | 59.3 | 59.1 | 58.8 | 58.6 | 58.4 | 58.1 | 57.9 | .8 |
| 16 | 60.0 | 59.8 | 59.6 | 59.3 | 59.1 | 58.9 | 58.6 | 58.4 | 58.2 | 57.9 | 57.7 | 16 |
| .2 | 59.8 | 59.6 | 59.4 | 59.1 | 58.9 | 58.7 | 58.4 | 58.2 | 58.0 | 57.7 | 57.5 | .2 |
| .4 | 59.6 | 59.4 | 59.2 | 58.9 | 58.7 | 58.5 | 58.2 | 58.0 | 57.8 | 57.5 | 57.3 | .4 |
| .6 | 59.5 | 59.3 | 59.0 | 58.8 | 58.6 | 58.4 | 58.1 | 57.8 | 57.6 | 57.4 | 57.1 | .6 |
| .8 | 59.3 | 59.1 | 58.8 | 58.6 | 58.4 | 58.2 | 57.9 | 57.6 | 57.4 | 57.2 | 56.9 | .8 |
| 17 | 59.1 | 58.9 | 58.6 | 58.4 | 58.2 | 58.0 | 57.7 | 57.4 | 57.2 | 57.0 | 56.7 | 17 |
| .2 | 58.9 | 58.7 | 58.4 | 58.2 | 58.0 | 57.8 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | .2 |
| .4 | 58.7 | 58.5 | 58.2 | 58.0 | 57.8 | 57.6 | 57.3 | 57.0 | 56.8 | 56.6 | 56.3 | .4 |
| .6 | 58.6 | 58.4 | 58.1 | 57.8 | 57.6 | 57.4 | 57.2 | 56.9 | 56.7 | 56.5 | 56.2 | .6 |
| .8 | 58.4 | 58.2 | 57.9 | 57.6 | 57.4 | 57.2 | 57.0 | 56.7 | 56.5 | 56.3 | 56.0 | .8 |
| 18 | 58.2 | 58.0 | 57.7 | 57.4 | 57.2 | 57.0 | 56.8 | 56.5 | 56.3 | 56.1 | 55.8 | 18 |
| .2 | 58.0 | 57.8 | 57.5 | 57.2 | 57.0 | 56.8 | 56.6 | 56.3 | 56.1 | 55.9 | 55.6 | .2 |
| .4 | 57.8 | 57.6 | 57.3 | 57.0 | 56.8 | 56.6 | 56.4 | 56.1 | 55.9 | 55.7 | 55.4 | .4 |
| .6 | 57.7 | 57.4 | 57.2 | 56.9 | 56.7 | 56.5 | 56.2 | 55.9 | 55.7 | 55.5 | 55.2 | .6 |
| .8 | 57.5 | 57.2 | 57.0 | 56.7 | 56.5 | 56.3 | 56.0 | 55.7 | 55.5 | 55.3 | 55.0 | .8 |
| 19 | 57.3 | 57.0 | 56.8 | 56.5 | 56.3 | 56.1 | 55.8 | 55.5 | 55.3 | 55.1 | 54.8 | 19 |
| .2 | 57.1 | 56.8 | 56.6 | 56.3 | 56.1 | 55.9 | 55.6 | 55.3 | 55.1 | 54.9 | 54.6 | .2 |
| .4 | 56.9 | 56.6 | 56.4 | 56.1 | 55.9 | 55.7 | 55.4 | 55.1 | 54.9 | 54.7 | 54.4 | .4 |
| .6 | 56.7 | 56.4 | 56.2 | 55.9 | 55.7 | 55.5 | 55.2 | 55.0 | 54.8 | 54.5 | 54.2 | .6 |
| .8 | 56.5 | 56.2 | 56.0 | 55.7 | 55.5 | 55.3 | 55.0 | 54.8 | 54.6 | 54.3 | 54.0 | .8 |
| 20 | 56.3 | 56.0 | 55.8 | 55.5 | 55.3 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | 53.8 | 20 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 20 | 56.3 | 56.0 | 55.8 | 55.5 | 55.3 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | 53.8 | 20 |
| .2 | 56.1 | 55.8 | 55.6 | 55.3 | 55.1 | 54.9 | 54.6 | 54.4 | 54.2 | 53.9 | 53.6 | .2 |
| .4 | 55.9 | 55.6 | 55.4 | 55.1 | 54.9 | 54.7 | 54.4 | 54.2 | 54.0 | 53.7 | 53.4 | .4 |
| .6 | 55.8 | 55.5 | 55.2 | 55.0 | 54.8 | 54.5 | 54.3 | 54.1 | 53.8 | 53.5 | 53.3 | .6 |
| .8 | 55.6 | 55.3 | 55.0 | 54.8 | 54.6 | 54.3 | 54.1 | 53.9 | 53.6 | 53.3 | 53.1 | .8 |
| 21 | 55.4 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | 53.9 | 53.7 | 53.4 | 53.1 | 52.9 | 21 |
| .2 | 55.2 | 54.9 | 54.6 | 54.4 | 54.2 | 53.9 | 53.7 | 53.5 | 53.2 | 52.9 | 52.7 | .2 |
| .4 | 55.0 | 54.7 | 54.4 | 54.2 | 54.0 | 53.7 | 53.5 | 53.3 | 53.0 | 52.7 | 52.5 | .4 |
| .6 | 54.8 | 54.5 | 54.3 | 54.1 | 53.8 | 53.6 | 53.3 | 53.1 | 52.8 | 52.6 | 52.3 | .6 |
| .8 | 54.6 | 54.3 | 54.1 | 53.9 | 53.6 | 53.4 | 53.1 | 52.9 | 52.6 | 52.4 | 52.1 | .8 |
| 22 | 54.4 | 54.1 | 53.9 | 53.7 | 53.4 | 53.2 | 52.9 | 52.7 | 52.4 | 52.2 | 51.9 | 22 |
| .2 | 54.2 | 53.9 | 53.7 | 53.5 | 53.2 | 53.0 | 52.7 | 52.5 | 52.2 | 52.0 | 51.7 | .2 |
| .4 | 54.0 | 53.7 | 53.5 | 53.3 | 53.0 | 52.8 | 52.5 | 52.3 | 52.0 | 51.8 | 51.5 | .4 |
| .6 | 53.8 | 53.5 | 53.3 | 53.1 | 52.8 | 52.6 | 52.3 | 52.1 | 51.9 | 51.6 | 51.4 | .6 |
| .8 | 53.6 | 53.3 | 53.1 | 52.9 | 52.6 | 52.4 | 52.1 | 51.9 | 51.7 | 51.4 | 51.2 | .8 |
| 23 | 53.4 | 53.1 | 52.9 | 52.7 | 52.4 | 52.2 | 51.9 | 51.7 | 51.5 | 51.2 | 51.0 | 23 |
| .2 | 53.2 | 52.9 | 52.7 | 52.5 | 52.2 | 52.0 | 51.7 | 51.5 | 51.3 | 51.0 | 50.8 | .2 |
| .4 | 53.0 | 52.7 | 52.5 | 52.3 | 52.0 | 51.8 | 51.5 | 51.3 | 51.1 | 50.8 | 50.6 | .4 |
| .6 | 52.8 | 52.6 | 52.3 | 52.1 | 51.8 | 51.6 | 51.4 | 51.1 | 50.9 | 50.6 | 50.4 | .6 |
| .8 | 52.6 | 52.4 | 52.1 | 51.9 | 51.6 | 51.4 | 51.2 | 50.9 | 50.7 | 50.4 | 50.2 | .8 |
| 24 | 52.4 | 52.2 | 51.9 | 51.7 | 51.4 | 51.2 | 51.0 | 50.7 | 50.5 | 50.2 | 50.0 | 24 |
| .2 | 52.2 | 52.0 | 51.7 | 51.5 | 51.2 | 51.0 | 50.8 | 50.5 | 50.3 | 50.0 | 49.8 | .2 |
| .4 | 52.0 | 51.8 | 51.5 | 51.3 | 51.0 | 50.8 | 50.6 | 50.3 | 50.1 | 49.8 | 49.6 | .4 |
| .6 | 51.8 | 51.6 | 51.4 | 51.1 | 50.8 | 50.6 | 50.4 | 50.1 | 49.8 | 49.6 | 49.4 | .6 |
| .8 | 51.6 | 51.4 | 51.2 | 50.9 | 50.6 | 50.4 | 50.2 | 49.9 | 49.6 | 49.4 | 49.2 | .8 |
| 25 | 51.4 | 51.2 | 51.0 | 50.7 | 50.4 | 50.2 | 50.0 | 49.7 | 49.4 | 49.2 | 49.0 | 25 |
| .2 | 51.2 | 51.0 | 50.8 | 50.5 | 50.2 | 50.0 | 49.8 | 49.5 | 49.2 | 49.0 | 48.8 | .2 |
| .4 | 51.0 | 50.8 | 50.6 | 50.3 | 50.0 | 49.8 | 49.6 | 49.3 | 49.0 | 48.8 | 48.6 | .4 |
| .6 | 50.8 | 50.5 | 50.3 | 50.1 | 49.8 | 49.6 | 49.4 | 49.1 | 48.8 | 48.5 | 48.3 | .6 |
| .8 | 50.6 | 50.3 | 50.1 | 49.9 | 49.6 | 49.4 | 49.2 | 48.9 | 48.6 | 48.3 | 48.1 | .8 |
| 26 | 50.4 | 50.1 | 49.9 | 49.7 | 49.4 | 49.2 | 49.0 | 48.7 | 48.4 | 48.1 | 47.9 | 26 |
| .2 | 50.2 | 49.9 | 49.7 | 49.5 | 49.2 | 49.0 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | .2 |
| .4 | 50.0 | 49.7 | 49.5 | 49.3 | 49.0 | 48.8 | 48.6 | 48.3 | 48.0 | 47.7 | 47.5 | .4 |
| .6 | 49.8 | 49.5 | 49.3 | 49.0 | 48.8 | 48.5 | 48.3 | 48.0 | 47.7 | 47.5 | 47.2 | .6 |
| .8 | 49.6 | 49.3 | 49.1 | 48.8 | 48.6 | 48.3 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | .8 |
| 27 | 49.4 | 49.1 | 48.9 | 48.7 | 48.4 | 48.1 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 27 |
| .2 | 49.2 | 48.9 | 48.7 | 48.4 | 48.2 | 47.9 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | .2 |
| .4 | 49.0 | 48.7 | 48.5 | 48.2 | 48.0 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | .4 |
| .6 | 48.7 | 48.5 | 48.2 | 47.9 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | .6 |
| .8 | 48.5 | 48.3 | 48.0 | 47.7 | 47.5 | 47.3 | 47.0 | 46.7 | 46.5 | 46.2 | 45.9 | .8 |
| 28 | 48.3 | 48.1 | 47.8 | 47.5 | 47.3 | 47.1 | 46.8 | 46.5 | 46.3 | 46.0 | 45.7 | 28 |
| .2 | 48.1 | 47.9 | 47.6 | 47.3 | 47.1 | 46.9 | 46.6 | 46.3 | 46.1 | 45.8 | 45.5 | .2 |
| .4 | 47.9 | 47.7 | 47.4 | 47.1 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | .4 |
| .6 | 47.7 | 47.4 | 47.1 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.4 | 45.1 | .6 |
| .8 | 47.5 | 47.2 | 46.9 | 46.7 | 46.5 | 46.2 | 45.9 | 45.7 | 45.4 | 45.2 | 44.9 | .8 |
| 29 | 47.3 | 47.0 | 46.7 | 46.5 | 46.3 | 46.0 | 45.7 | 45.5 | 45.2 | 45.0 | 44.7 | 29 |
| .2 | 47.1 | 46.8 | 46.5 | 46.3 | 46.1 | 45.8 | 45.5 | 45.3 | 45.0 | 44.8 | 44.5 | .2 |
| .4 | 46.9 | 46.6 | 46.3 | 46.1 | 45.9 | 45.6 | 45.3 | 45.1 | 44.8 | 44.6 | 44.3 | .4 |
| .6 | 46.6 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 44.8 | 44.6 | 44.3 | 44.0 | .6 |
| .8 | 46.4 | 46.2 | 45.9 | 45.7 | 45.4 | 45.1 | 44.8 | 44.6 | 44.4 | 44.1 | 43.8 | .8 |
| 30 | 46.2 | 46.0 | 45.7 | 45.5 | 45.2 | 44.9 | 44.6 | 44.4 | 44.2 | 43.9 | 43.6 | 30 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 30 | 46.2 | 46.0 | 45.7 | 45.5 | 45.2 | 44.9 | 44.6 | 44.4 | 44.2 | 43.9 | 43.6 | 30 |
| .2 | 46.0 | 45.8 | 45.5 | 45.3 | 45.0 | 44.7 | 44.4 | 44.2 | 44.0 | 43.7 | 43.4 | .2 |
| .4 | 45.8 | 45.6 | 45.3 | 45.1 | 44.8 | 44.5 | 44.2 | 44.0 | 43.8 | 43.5 | 43.2 | .4 |
| .6 | 45.6 | 45.3 | 45.0 | 44.8 | 44.5 | 44.3 | 44.0 | 43.7 | 43.5 | 43.2 | 42.9 | .6 |
| .8 | 45.4 | 45.1 | 44.8 | 44.6 | 44.3 | 44.1 | 43.8 | 43.5 | 43.3 | 43.0 | 42.7 | .8 |
| 31 | 45.2 | 44.9 | 44.6 | 44.4 | 44.1 | 43.9 | 43.6 | 43.3 | 43.1 | 42.8 | 42.5 | 31 |
| .2 | 45.0 | 44.7 | 44.4 | 44.2 | 43.9 | 43.7 | 43.4 | 43.1 | 42.9 | 42.6 | 42.3 | .2 |
| .4 | 44.8 | 44.5 | 44.2 | 44.0 | 43.7 | 43.5 | 43.2 | 42.9 | 42.7 | 42.4 | 42.1 | .4 |
| .6 | 44.5 | 44.2 | 43.9 | 43.7 | 43.4 | 43.2 | 42.9 | 42.6 | 42.4 | 42.1 | 41.8 | .6 |
| .8 | 44.3 | 44.0 | 43.7 | 43.5 | 43.2 | 43.0 | 42.7 | 42.4 | 42.2 | 41.9 | 41.6 | .8 |
| 32 | 44.1 | 43.8 | 43.5 | 43.3 | 43.0 | 42.8 | 42.5 | 42.2 | 42.0 | 41.7 | 41.4 | 32 |
| .2 | 43.9 | 43.6 | 43.3 | 43.1 | 42.8 | 42.6 | 42.3 | 42.0 | 41.8 | 41.5 | 41.2 | .2 |
| .4 | 43.7 | 43.4 | 43.1 | 42.8 | 42.6 | 42.4 | 42.1 | 41.8 | 41.6 | 41.3 | 41.0 | .4 |
| .6 | 43.4 | 43.1 | 42.8 | 42.6 | 42.3 | 42.1 | 41.8 | 41.5 | 41.3 | 41.0 | 40.7 | .6 |
| .8 | 43.2 | 42.9 | 42.6 | 42.3 | 42.1 | 41.9 | 41.6 | 41.3 | 41.1 | 40.8 | 40.5 | .8 |
| 33 | 43.0 | 42.7 | 42.4 | 42.1 | 41.9 | 41.7 | 41.4 | 41.1 | 40.9 | 40.6 | 40.3 | 33 |
| .2 | 42.8 | 42.5 | 42.2 | 41.9 | 41.7 | 41.5 | 41.2 | 40.9 | 40.7 | 40.4 | 40.1 | .2 |
| .4 | 42.6 | 42.3 | 42.0 | 41.7 | 41.5 | 41.3 | 41.0 | 40.7 | 40.5 | 40.2 | 39.9 | .4 |
| .6 | 42.3 | 42.0 | 41.7 | 41.4 | 41.2 | 41.0 | 40.7 | 40.4 | 40.2 | 39.9 | 39.6 | .6 |
| .8 | 42.1 | 41.8 | 41.5 | 41.2 | 41.0 | 40.8 | 40.5 | 40.2 | 40.0 | 39.7 | 39.4 | .8 |
| 34 | 41.9 | 41.6 | 41.3 | 41.0 | 40.8 | 40.6 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 34 |
| .2 | 41.7 | 41.4 | 41.1 | 40.8 | 40.6 | 40.4 | 40.1 | 39.8 | 39.6 | 39.3 | 39.0 | .2 |
| .4 | 41.5 | 41.2 | 40.9 | 40.6 | 40.4 | 40.1 | 39.8 | 39.5 | 39.3 | 39.0 | 38.8 | .4 |
| .6 | 41.2 | 40.9 | 40.6 | 40.4 | 40.1 | 39.9 | 39.6 | 39.3 | 39.1 | 38.8 | 38.5 | .6 |
| .8 | 41.0 | 40.7 | 40.4 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.8 | 38.5 | 38.3 | .8 |
| 35 | 40.8 | 40.5 | 40.2 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | 38.6 | 38.3 | 38.1 | 35 |
| .2 | 40.6 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.4 | 38.1 | 37.9 | .2 |
| .4 | 40.3 | 40.1 | 39.8 | 39.5 | 39.2 | 38.9 | 38.7 | 38.4 | 38.1 | 37.8 | 37.6 | .4 |
| .6 | 40.1 | 39.8 | 39.5 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.9 | 37.6 | 37.4 | .6 |
| .8 | 39.8 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 38.2 | 37.9 | 37.6 | 37.3 | 37.1 | .8 |
| 36 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | 38.0 | 37.7 | 37.4 | 37.1 | 36.9 | 36 |
| .2 | 39.4 | 39.1 | 38.9 | 38.6 | 38.3 | 38.0 | 37.8 | 37.5 | 37.2 | 36.9 | 36.7 | .2 |
| .4 | 39.1 | 38.9 | 38.6 | 38.3 | 38.0 | 37.8 | 37.5 | 37.2 | 36.9 | 36.7 | 36.4 | .4 |
| .6 | 38.9 | 38.6 | 38.4 | 38.1 | 37.8 | 37.5 | 37.3 | 37.0 | 36.7 | 36.4 | 36.2 | .6 |
| .8 | 38.6 | 38.4 | 38.1 | 37.8 | 37.5 | 37.3 | 37.0 | 36.7 | 36.4 | 36.2 | 35.9 | .8 |
| 37 | 38.4 | 38.1 | 37.9 | 37.6 | 37.3 | 37.1 | 36.8 | 36.5 | 36.2 | 36.0 | 35.7 | 37 |
| .2 | 38.2 | 37.9 | 37.7 | 37.4 | 37.1 | 36.9 | 36.6 | 36.3 | 36.0 | 35.8 | 35.5 | .2 |
| .4 | 37.9 | 37.7 | 37.4 | 37.1 | 36.9 | 36.6 | 36.3 | 36.1 | 35.8 | 35.5 | 35.2 | .4 |
| .6 | 37.7 | 37.4 | 37.2 | 36.9 | 36.6 | 36.4 | 36.1 | 35.8 | 35.5 | 35.3 | 35.0 | .6 |
| .8 | 37.4 | 37.2 | 36.9 | 36.6 | 36.4 | 36.1 | 35.8 | 35.6 | 35.3 | 35.0 | 34.7 | .8 |
| 38 | 37.2 | 37.0 | 36.7 | 36.4 | 36.2 | 36.0 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | 38 |
| .2 | 37.0 | 36.8 | 36.5 | 36.2 | 36.0 | 35.7 | 35.4 | 35.2 | 34.9 | 34.6 | 34.3 | .2 |
| .4 | 36.8 | 36.6 | 36.3 | 36.0 | 35.7 | 35.4 | 35.1 | 34.9 | 34.6 | 34.3 | 34.0 | .4 |
| .6 | 36.5 | 36.3 | 36.0 | 35.7 | 35.5 | 35.2 | 34.9 | 34.7 | 34.4 | 34.1 | 33.8 | .6 |
| .8 | 36.3 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34.6 | 34.4 | 34.1 | 33.8 | 33.5 | .8 |
| 39 | 36.1 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.2 | 33.9 | 33.6 | 33.3 | 39 |
| .2 | 35.9 | 35.6 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 34.0 | 33.7 | 33.4 | 33.1 | .2 |
| .4 | 35.6 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.7 | 33.4 | 33.1 | 32.8 | .4 |
| .6 | 35.4 | 35.1 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.5 | 33.2 | 32.9 | 32.6 | .6 |
| .8 | 35.1 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.2 | 32.9 | 32.6 | 32.3 | .8 |
| 40 | 34 9 | 34.6 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 33.0 | 32.7 | 32.4 | 32.1 | 40 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 40 | 34.9 | 34.6 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 33.0 | 32.7 | 32.4 | 32.1 | 40 |
| .2 | 34.7 | 34.4 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | .2 |
| .4 | 34.4 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.5 | 32.2 | 31.9 | 31.6 | .4 |
| .6 | 34.2 | 33.9 | 33.7 | 33.4 | 33.1 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | .6 |
| .8 | 33.9 | 33.7 | 33.4 | 33.1 | 32.8 | 32.5 | 32.2 | 32.0 | 31.7 | 31.4 | 31.1 | .8 |
| 41 | 33.7 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | 41 |
| .2 | 33.5 | 33.2 | 32.9 | 32.6 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | .2 |
| .4 | 33.2 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.3 | .4 |
| .6 | 33.0 | 32.7 | 32.4 | 32.1 | 31.9 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | .6 |
| .8 | 32.7 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | 29.8 | .8 |
| 42 | 32.5 | 32.2 | 31.9 | 31.6 | 31.4 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | 42 |
| .2 | 32.3 | 32.0 | 31.7 | 31.4 | 31.2 | 30.9 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | .2 |
| .4 | 32.0 | 31.7 | 31.4 | 31.1 | 30.9 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.1 | .4 |
| .6 | 31.8 | 31.5 | 31.2 | 30.9 | 30.7 | 30.4 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | .6 |
| .8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.4 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | .8 |
| 43 | 31.3 | 31.0 | 30.7 | 30.4 | 30.2 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 43 |
| .2 | 31.0 | 30.7 | 30.4 | 30.1 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | .2 |
| .4 | 30.8 | 30.5 | 30.2 | 29.9 | 29.7 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | .4 |
| .6 | 30.5 | 30.2 | 29.9 | 29.6 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | .6 |
| .8 | 30.3 | 30.0 | 29.7 | 29.4 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | .8 |
| 44 | 30.0 | 29.7 | 29.4 | 29.1 | 28.9 | 28.6 | 28.3 | 28.0 | 27.8 | 27.4 | 27.1 | 44 |
| .2 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | .2 |
| .4 | 29.5 | 29.2 | 28.9 | 28.6 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | .4 |
| .6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | .6 |
| .8 | 29.0 | 28.7 | 28.4 | 28.1 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | .8 |
| 45 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 45 |
| .2 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | .2 |
| .4 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | .4 |
| .6 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | .6 |
| .8 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | .8 |
| 46 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 46 |
| .2 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | .2 |
| .4 | 26.9 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | .4 |
| .6 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | .6 |
| .8 | 26.4 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.5 | .8 |
| 47 | 26.1 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.5 | 23.2 | 47 |
| .2 | 25.8 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.5 | 23.2 | 22.9 | .2 |
| .4 | 25.6 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | 23.9 | 23.6 | 23.3 | 23.0 | 22.7 | .4 |
| .6 | 25.3 | 25.1 | 24.8 | 24.5 | 24.2 | 23.9 | 23.6 | 23.3 | 23.0 | 22.7 | 22.4 | .6 |
| .8 | 25.1 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | 23.4 | 23.1 | 22.8 | 22.5 | 22.2 | .8 |
| 48 | 24.8 | 24.6 | 24.3 | 24.0 | 23.7 | 23.4 | 23.1 | 22.8 | 22.5 | 22.2 | 21.9 | 48 |
| .2 | 24.5 | 24.3 | 24.0 | 23.7 | 23.4 | 23.1 | 22.8 | 22.5 | 22.2 | 21.9 | 21.6 | .2 |
| .4 | 24.3 | 24.0 | 23.8 | 23.5 | 23.2 | 22.9 | 22.5 | 22.2 | 22.0 | 21.7 | 21.4 | .4 |
| .6 | 24.0 | 23.8 | 23.5 | 23.2 | 22.9 | 22.6 | 22.3 | 22.0 | 21.7 | 21.4 | 21.1 | .6 |
| .8 | 23.8 | 23.5 | 23.3 | 23.0 | 22.7 | 22.4 | 22.0 | 21.7 | 21.5 | 21.2 | 20.9 | .8 |
| 49 | 23.5 | 23.2 | 23.0 | 22.7 | 22.4 | 22.1 | 21.7 | 21.4 | 21.2 | 20.9 | 20.6 | 49 |
| .2 | 23.2 | 22.9 | 22.7 | 22.4 | 22.1 | 21.8 | 21.4 | 21.1 | 20.9 | 20.6 | 20.3 | .2 |
| .4 | 23.0 | 22.7 | 22.4 | 22.1 | 21.8 | 21.5 | 21.2 | 20.9 | 20.6 | 20.3 | 20.0 | .4 |
| .6 | 22.7 | 22.4 | 22.2 | 21.9 | 21.6 | 21.3 | 20.9 | 20.6 | 20.4 | 20.1 | 19.8 | .6 |
| .8 | 22.5 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.5 | .8 |
| 50 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 50 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 50 |
| .2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 18.9 | .2 |
| .4 | 21.7 | 21.3 | 21.0 | 20.7 | 20.4 | 20.2 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | .4 |
| .6 | 21.4 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | 18.4 | .6 |
| .8 | 21.2 | 20.8 | 20.5 | 20.2 | 19.9 | 19.7 | 19.4 | 19.1 | 18.8 | 18.5 | 18.2 | .8 |
| 51 | 20.9 | 20.5 | 20.2 | 19.9 | 19.6 | 19.4 | 19.1 | 18.8 | 18.5 | 18.2 | 17.9 | 51 |
| .2 | 20.6 | 20.2 | 19.9 | 19.6 | 19.3 | 19.1 | 18.8 | 18.5 | 18.2 | 17.9 | 17.6 | .2 |
| .4 | 20.3 | 20.0 | 19.7 | 19.4 | 19.1 | 18.8 | 18.5 | 18.2 | 17.9 | 17.6 | 17.3 | .4 |
| .6 | 20.1 | 19.7 | 19.4 | 19.1 | 18.8 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | .6 |
| .8 | 19.8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.8 | .8 |
| 52 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.8 | 16.5 | 52 |
| .2 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.8 | 16.5 | 16.2 | .2 |
| .4 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.8 | 16.5 | 16.2 | 15.9 | .4 |
| .6 | 18.7 | 18.4 | 18.1 | 17.8 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.6 | .6 |
| .8 | 18.4 | 18.1 | 17.8 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.3 | .8 |
| 53 | 18.1 | 17.9 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.0 | 53 |
| .2 | 17.8 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.1 | 14.7 | .2 |
| .4 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.1 | 14.8 | 14.4 | .4 |
| .6 | 17.3 | 17.0 | 16.7 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.2 | .6 |
| .8 | 17.0 | 16.7 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 13.9 | .8 |
| 54 | 16.7 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.6 | 54 |
| .2 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.7 | 13.3 | .2 |
| .4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.7 | 13.4 | 13.0 | .4 |
| .6 | 15.9 | 15.6 | 15.3 | 15.0 | 14.7 | 14.4 | 14.1 | 13.7 | 13.4 | 13.1 | 12.8 | .6 |
| .8 | 15.6 | 15.3 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.4 | 13.1 | 12.8 | 12.5 | .8 |
| 55 | 15.3 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 12.5 | 12.2 | 55 |
| .2 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.2 | 12.8 | 12.5 | 12.2 | 11.9 | .2 |
| .4 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.2 | 12.9 | 12.5 | 12.2 | 11.9 | 11.6 | .4 |
| .6 | 14.5 | 14.2 | 13.8 | 13.5 | 13.3 | 13.0 | 12.6 | 12.3 | 12.0 | 11.6 | 11.3 | .6 |
| .8 | 14.2 | 13.9 | 13.5 | 13.2 | 13.0 | 12.7 | 12.3 | 12.0 | 11.7 | 11.3 | 11.0 | .8 |
| 56 | 13.9 | 13.6 | 13.2 | 12.9 | 12.7 | 12.4 | 12.0 | 11.7 | 11.4 | 11.0 | 10.7 | 56 |
| .2 | 13.6 | 13.3 | 12.9 | 12.6 | 12.4 | 12.1 | 11.7 | 11.4 | 11.1 | 10.7 | 10.4 | .2 |
| .4 | 13.3 | 13.0 | 12.6 | 12.3 | 12.1 | 11.8 | 11.4 | 11.1 | 10.8 | 10.4 | 10.1 | .4 |
| .6 | 13.1 | 12.7 | 12.4 | 12.1 | 11.8 | 11.5 | 11.2 | 10.9 | 10.5 | 10.2 | 9.9 | .6 |
| .8 | 12.8 | 12.4 | 12.1 | 11.8 | 11.5 | 11.2 | 10.9 | 10.6 | 10.2 | 9.9 | 9.6 | .8 |
| 57 | 12.5 | 12.1 | 11.8 | 11.5 | 11.2 | 10.9 | 10.6 | 10.3 | 9.9 | 9.6 | 9.3 | 57 |
| .2 | 12.2 | 11.8 | 11.5 | 11.2 | 10.9 | 10.6 | 10.3 | 10.0 | 9.6 | 9.3 | 9.0 | .2 |
| .4 | 11.9 | 11.5 | 11.2 | 10.9 | 10.6 | 10.3 | 10.0 | 9.7 | 9.3 | 9.0 | 8.7 | .4 |
| .6 | 11.6 | 11.3 | 11.0 | 10.6 | 10.3 | 10.0 | 9.7 | 9.4 | 9.1 | 8.8 | 8.4 | .6 |
| .8 | 11.3 | 11.0 | 10.7 | 10.3 | 10.0 | 9.7 | 9.4 | 9.1 | 8.8 | 8.5 | 8.1 | .8 |
| 58 | 11.0 | 10.7 | 10.4 | 10.0 | 9.7 | 9.4 | 9.1 | 8.8 | 8.5 | 8.2 | 7.8 | 58 |
| .2 | 10.7 | 10.4 | 10.1 | 9.7 | 9.4 | 9.1 | 8.8 | 8.5 | 8.2 | 7.9 | 7.5 | .2 |
| .4 | 10.4 | 10.1 | 9.8 | 9.4 | 9.1 | 8.8 | 8.5 | 8.2 | 7.9 | 7.6 | 7.2 | .4 |
| .6 | 10.1 | 9.8 | 9.5 | 9.2 | 8.9 | 8.5 | 8.2 | 7.9 | 7.6 | 7.3 | 6.9 | .6 |
| .8 | 9.8 | 9.5 | 9.2 | 8.9 | 8.6 | 8.2 | 7.9 | 7.6 | 7.3 | 7.0 | 6.6 | .8 |
| 59 | 9.5 | 9.2 | 8.9 | 8.6 | 8.3 | 7.9 | 7.6 | 7.3 | 7.0 | 6.7 | 6.3 | 59 |
| .2 | 9.2 | 8.9 | 8.6 | 8.3 | 8.0 | 7.6 | 7.3 | 7.0 | 6.7 | 6.4 | 6.0 | .2 |
| .4 | 8.9 | 8.6 | 8.3 | 8.0 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.1 | 5.7 | .4 |
| .6 | 8.6 | 8.3 | 8.0 | 7.7 | 7.4 | 7.0 | 6.7 | 6.4 | 6.1 | 5.7 | 5.4 | .6 |
| .8 | 8.3 | 8.0 | 7.7 | 7.4 | 7.1 | 6.7 | 6.4 | 6.1 | 5.8 | 5.4 | 5.1 | .8 |
| 60 | 8.0 | 7.7 | 7.4 | 7.1 | 6.8 | 6.4 | 6.1 | 5.8 | 5.5 | 5.1 | 4.8 | 60 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 60 | 8.0 | 7.7 | 7.4 | 7.1 | 6.8 | 6.4 | 6.1 | 5.8 | 5.5 | 5.1 | 4.8 | 60 |
| .2 | 7.7 | 7.4 | 7.1 | 6.8 | 6.5 | 6.1 | 5.8 | 5.5 | 5.2 | 4.8 | 4.5 | .2 |
| .4 | 7.4 | 7.1 | 6.8 | 6.5 | 6.2 | 5.8 | 5.5 | 5.2 | 4.9 | 4.5 | 4.2 | .4 |
| .6 | 7.1 | 6.8 | 6.5 | 6.1 | 5.8 | 5.5 | 5.2 | 4.9 | 4.6 | 4.2 | 3.9 | .6 |
| .8 | 6.8 | 6.5 | 6.2 | 5.8 | 5.5 | 5.2 | 4.9 | 4.6 | 4.3 | 3.9 | 3.6 | .8 |
| 61 | 6.5 | 6.2 | 5.9 | 5.5 | 5.2 | 4.9 | 4.6 | 4.3 | 4.0 | 3.6 | 3.3 | 61 |
| .2 | 6.2 | 5.9 | 5.6 | 5.2 | 4.9 | 4.6 | 4.3 | 4.0 | 3.7 | 3.3 | 3.0 | .2 |
| .4 | 5.9 | 5.6 | 5.3 | 4.9 | 4.6 | 4.3 | 4.0 | 3.7 | 3.4 | 3.0 | 2.7 | .4 |
| .6 | 5.6 | 5.3 | 5.0 | 4.6 | 4.3 | 4.0 | 3.7 | 3.4 | 3.1 | 2.7 | 2.4 | .6 |
| .8 | 5.3 | 5.0 | 4.7 | 4.3 | 4.0 | 3.7 | 3.4 | 3.1 | 2.8 | 2.4 | 2.1 | .8 |
| 62 | 5.0 | 4.7 | 4.4 | 4.0 | 3.7 | 3.4 | 3.1 | 2.8 | 2.5 | 2.1 | 1.8 | 62 |
| .2 | 4.7 | 4.4 | 4.1 | 3.7 | 3.4 | 3.1 | 2.8 | 2.5 | 2.2 | 1.8 | 1.5 | .2 |
| .4 | 4.4 | 4.1 | 3.8 | 3.4 | 3.1 | 2.8 | 2.5 | 2.2 | 1.9 | 1.5 | 1.2 | .4 |
| .6 | 4.0 | 3.8 | 3.4 | 3.1 | 2.8 | 2.5 | 2.1 | 1.8 | 1.5 | 1.2 | .8 | .6 |
| .8 | 3.7 | 3.5 | 3.1 | 2.8 | 2.5 | 2.2 | 1.8 | 1.5 | 1.2 | .9 | .5 | .8 |
| 63 | 3.4 | 3.2 | 2.8 | 2.5 | 2.2 | 1.9 | 1.5 | 1.2 | .9 | .6 | .2 | 63 |
| .2 | 3.1 | 2.9 | 2.5 | 2.2 | 1.9 | 1.6 | 1.2 | .9 | .6 | .3 | .1 | .2 |
| .4 | 2.8 | 2.6 | 2.2 | 1.9 | 1.6 | 1.3 | .9 | .6 | .2 | .1 | .4 | .4 |
| .6 | 2.5 | 2.2 | 1.8 | 1.5 | 1.2 | .9 | .5 | .2 | .1 | .4 | .8 | .6 |
| .8 | 2.2 | 1.9 | 1.5 | 1.2 | .9 | .6 | .2 | .1 | .5 | .8 | 1.1 | .8 |
| 64 | 1.9 | 1.6 | 1.2 | .9 | .6 | .3 | .1 | .4 | .8 | 1.1 | 1.4 | 64 |
| .2 | 1.6 | 1.3 | .9 | .6 | .3 | .0 | .4 | .7 | 1.1 | 1.4 | 1.7 | .2 |
| .4 | 1.3 | .9 | .6 | .2 | .1 | .4 | .7 | 1.0 | 1.4 | 1.7 | 2.0 | .4 |
| .6 | .9 | .6 | .2 | .1 | .4 | .7 | 1.1 | 1.4 | 1.8 | 2.1 | 2.4 | .6 |
| .8 | .6 | .2 | .1 | .5 | .8 | 1.1 | 1.4 | 1.7 | 2.1 | 2.4 | 2.7 | .8 |
| 65 | .3 | .1 | .4 | .8 | 1.1 | 1.4 | 1.7 | 2.0 | 2.4 | 2.7 | 3.0 | 65 |
| .2 | .0 | .4 | .7 | 1.1 | 1.4 | 1.7 | 2.0 | 2.3 | 2.7 | 3.0 | 3.3 | .2 |
| .4 | .4 | .7 | 1.0 | 1.4 | 1.7 | 2.0 | 2.3 | 2.6 | 3.0 | 3.3 | 3.6 | .4 |
| .6 | .7 | 1.1 | 1.4 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.4 | 3.7 | 4.0 | .6 |
| .8 | 1.1 | 1.4 | 1.7 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | .8 |
| 66 | 1.4 | 1.7 | 2.0 | 2.4 | 2.7 | 3.0 | 3.3 | 3.6 | 4.0 | 4.3 | 4.6 | 66 |
| .2 | 1.7 | 2.0 | 2.3 | 2.7 | 3.0 | 3.3 | 3.6 | 3.9 | 4.3 | 4.6 | 5.0 | .2 |
| .4 | 2.1 | 2.4 | 2.7 | 3.1 | 3.4 | 3.7 | 4.0 | 4.3 | 4.7 | 5.0 | 5.3 | .4 |
| .6 | 2.4 | 2.7 | 3.0 | 3.4 | 3.7 | 4.0 | 4.3 | 4.6 | 5.0 | 5.3 | 5.7 | .6 |
| .8 | 2.8 | 3.1 | 3.4 | 3.8 | 4.1 | 4.4 | 4.7 | 5.0 | 5.4 | 5.7 | 6.0 | .8 |
| 67 | 3.1 | 3.4 | 3.7 | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.7 | 6.0 | 6.4 | 67 |
| .2 | 3.4 | 3.7 | 4.0 | 4.4 | 4.7 | 5.0 | 5.4 | 5.6 | 6.0 | 6.3 | 6.7 | .2 |
| .4 | 3.8 | 4.1 | 4.4 | 4.8 | 5.1 | 5.4 | 5.7 | 6.0 | 6.4 | 6.7 | 7.1 | .4 |
| .6 | 4.1 | 4.4 | 4.7 | 5.1 | 5.4 | 5.7 | 6.1 | 6.3 | 6.7 | 7.0 | 7.4 | .6 |
| .8 | 4.5 | 4.8 | 5.1 | 5.5 | 5.8 | 6.1 | 6.4 | 6.7 | 7.1 | 7.4 | 7.8 | .8 |
| 68 | 4.8 | 5.1 | 5.4 | 5.8 | 6.1 | 6.4 | 6.8 | 7.0 | 7.4 | 7.7 | 8.1 | 68 |
| .2 | 5.2 | 5.5 | 5.8 | 6.1 | 6.4 | 6.7 | 7.1 | 7.4 | 7.7 | 8.1 | 8.5 | .2 |
| .4 | 5.5 | 5.8 | 6.1 | 6.5 | 6.8 | 7.1 | 7.5 | 7.7 | 8.1 | 8.4 | 8.8 | .4 |
| .6 | 5.9 | 6.2 | 6.5 | 6.8 | 7.1 | 7.4 | 7.8 | 8.1 | 8.4 | 8.8 | 9.2 | .6 |
| .8 | 6.2 | 6.5 | 6.8 | 7.2 | 7.5 | 7.8 | 8.2 | 8.4 | 8.8 | 9.1 | 9.5 | .8 |
| 69 | 6.6 | 6.9 | 7.2 | 7.5 | 7.8 | 8.1 | 8.5 | 8.8 | 9.1 | 9.5 | 9.9 | 69 |
| .2 | 6.9 | 7.2 | 7.6 | 7.9 | 8.2 | 8.5 | 8.9 | 9.2 | 9.5 | 9.9 | 10.3 | .2 |
| .4 | 7.3 | 7.6 | 7.9 | 8.2 | 8.5 | 8.9 | 9.2 | 9.5 | 9.8 | 10.2 | 10.6 | .4 |
| .6 | 7.6 | 7.9 | 8.3 | 8.6 | 8.9 | 9.2 | 9.6 | 9.9 | 10.2 | 10.6 | 11.0 | .6 |
| .8 | 8.0 | 8.3 | 8.6 | 8.9 | 9.2 | 9.6 | 9.9 | 10.2 | 10.5 | 10.9 | 11.3 | .8 |
| 70 | 8.3 | 8.6 | 9.0 | 9.3 | 9.6 | 10.0 | 10.3 | 10.6 | 10.9 | 11.3 | 11.7 | 70 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 70 | 8.3 | 8.6 | 9.0 | 9.3 | 9.6 | 10.0 | 10.3 | 10.6 | 10.9 | 11.3 | 11.7 | 70 |
| .2 | 8.7 | 9.0 | 9.4 | 9.7 | 10.0 | 10.4 | 10.7 | 11.0 | 11.3 | 11.7 | 12.1 | .2 |
| .4 | 9.0 | 9.3 | 9.7 | 10.0 | 10.3 | 10.7 | 11.0 | 11.3 | 11.6 | 12.0 | 12.4 | .4 |
| .6 | 9.4 | 9.7 | 10.1 | 10.4 | 10.7 | 11.1 | 11.4 | 11.7 | 12.0 | 12.4 | 12.8 | .6 |
| .8 | 9.7 | 10.0 | 10.4 | 10.7 | 11.0 | 11.4 | 11.7 | 12.0 | 12.3 | 12.7 | 13.1 | .8 |
| 71 | 10.1 | 10.4 | 10.8 | 11.1 | 11.4 | 11.8 | 12.1 | 12.4 | 12.7 | 13.1 | 13.5 | 71 |
| .2 | 10.5 | 10.8 | 11.2 | 11.5 | 11.8 | 12.2 | 12.5 | 12.8 | 13.1 | 13.5 | 13.9 | .2 |
| .4 | 10.8 | 11.2 | 11.5 | 11.8 | 12.2 | 12.5 | 12.9 | 13.2 | 13.5 | 13.9 | 14.3 | .4 |
| .6 | 11.2 | 11.5 | 11.9 | 12.2 | 12.5 | 12.9 | 13.2 | 13.5 | 13.8 | 14.2 | 14.6 | .6 |
| .8 | 11.5 | 11.9 | 12.2 | 12.5 | 12.9 | 13.2 | 13.6 | 13.9 | 14.2 | 14.6 | 15.0 | .8 |
| 72 | 11.9 | 12.3 | 12.6 | 12.9 | 13.3 | 13.6 | 14.0 | 14.3 | 14.6 | 15.0 | 15.4 | 72 |
| .2 | 12.3 | 12.7 | 13.0 | 13.3 | 13.7 | 14.0 | 14.4 | 14.7 | 15.0 | 15.4 | 15.8 | .2 |
| .4 | 12.7 | 13.1 | 13.4 | 13.7 | 14.1 | 14.4 | 14.8 | 15.1 | 15.4 | 15.8 | 16.2 | .4 |
| .6 | 13.0 | 13.4 | 13.7 | 14.0 | 14.4 | 14.7 | 15.1 | 15.4 | 15.7 | 16.1 | 16.5 | .6 |
| .8 | 13.4 | 13.8 | 14.1 | 14.4 | 14.8 | 15.1 | 15.5 | 15.8 | 16.1 | 16.5 | 16.9 | .8 |
| 73 | 13.8 | 14.2 | 14.5 | 14.8 | 15.2 | 15.5 | 15.9 | 16.2 | 16.5 | 16.9 | 17.3 | 73 |
| .2 | 14.2 | 14.6 | 14.9 | 15.2 | 15.6 | 15.9 | 16.3 | 16.6 | 16.9 | 17.3 | 17.7 | .2 |
| .4 | 14.6 | 15.0 | 15.3 | 15.6 | 16.0 | 16.3 | 16.7 | 17.0 | 17.3 | 17.7 | 18.1 | .4 |
| .6 | 15.0 | 15.3 | 15.6 | 16.0 | 16.3 | 16.7 | 17.0 | 17.4 | 17.7 | 18.1 | 18.5 | .6 |
| .8 | 15.4 | 15.7 | 16.0 | 16.4 | 16.7 | 17.1 | 17.4 | 17.8 | 18.1 | 18.5 | 18.9 | .8 |
| 74 | 15.8 | 16.1 | 16.4 | 16.8 | 17.1 | 17.5 | 17.8 | 18.2 | 18.5 | 18.9 | 19.3 | 74 |
| .2 | 16.2 | 16.5 | 16.8 | 17.2 | 17.5 | 17.9 | 18.2 | 18.6 | 18.9 | 19.3 | 19.7 | .2 |
| .4 | 16.6 | 16.9 | 17.2 | 17.6 | 17.9 | 18.3 | 18.6 | 19.0 | 19.3 | 19.7 | 20.1 | .4 |
| .6 | 17.0 | 17.4 | 17.7 | 18.0 | 18.4 | 18.7 | 19.1 | 19.4 | 19.8 | 20.2 | 20.5 | .6 |
| .8 | 17.4 | 17.8 | 18.1 | 18.4 | 18.8 | 19.1 | 19.5 | 19.8 | 20.2 | 20.6 | 20.9 | .8 |
| 75 | 17.8 | 18.2 | 18.5 | 18.8 | 19.2 | 19.5 | 19.9 | 20.2 | 20.6 | 21.0 | 21.3 | 75 |
| .2 | 18.2 | 18.6 | 18.9 | 19.2 | 19.6 | 19.9 | 20.3 | 20.6 | 21.0 | 21.4 | 21.7 | .2 |
| .4 | 18.6 | 19.0 | 19.3 | 19.7 | 20.0 | 20.4 | 20.7 | 21.0 | 21.4 | 21.8 | 22.1 | .4 |
| .6 | 19.1 | 19.5 | 19.8 | 20.1 | 20.5 | 20.8 | 21.2 | 21.5 | 21.9 | 22.2 | 22.5 | .6 |
| .8 | 19.5 | 19.9 | 20.2 | 20.6 | 20.9 | 21.3 | 21.6 | 21.9 | 22.3 | 22.6 | 22.9 | .8 |
| 76 | 19.9 | 20.3 | 20.6 | 21.0 | 21.3 | 21.7 | 22.0 | 22.3 | 22.7 | 23.0 | 23.3 | 76 |
| .2 | 20.3 | 20.7 | 21.0 | 21.4 | 21.7 | 22.1 | 22.4 | 22.7 | 23.1 | 23.4 | 23.7 | .2 |
| .4 | 20.7 | 21.1 | 21.4 | 21.8 | 22.1 | 22.5 | 22.8 | 23.2 | 23.5 | 23.9 | 24.2 | .4 |
| .6 | 21.2 | 21.6 | 21.9 | 22.3 | 22.6 | 23.0 | 23.3 | 23.6 | 24.0 | 24.3 | 24.6 | .6 |
| .8 | 21.6 | 22.0 | 22.3 | 22.7 | 23.0 | 23.4 | 23.7 | 24.1 | 24.4 | 24.8 | 25.1 | .8 |
| 77 | 22.0 | 22.4 | 22.7 | 23.1 | 23.4 | 23.8 | 24.1 | 24.5 | 24.8 | 25.2 | 25.5 | 77 |
| .2 | 22.5 | 22.9 | 23.2 | 23.5 | 23.9 | 24.2 | 24.6 | 25.0 | 25.3 | 25.7 | 26.0 | .2 |
| .4 | 22.9 | 23.3 | 23.6 | 24.0 | 24.3 | 24.7 | 25.0 | 25.4 | 25.7 | 26.1 | 26.4 | .4 |
| .6 | 23.4 | 23.8 | 24.1 | 24.4 | 24.8 | 25.1 | 25.5 | 25.9 | 26.2 | 26.6 | 26.9 | .6 |
| .8 | 23.8 | 24.2 | 24.5 | 24.9 | 25.2 | 25.6 | 25.9 | 26.3 | 26.6 | 27.0 | 27.3 | .8 |
| 78 | 24.3 | 24.7 | 25.0 | 25.3 | 25.7 | 26.0 | 26.4 | 26.8 | 27.1 | 27.5 | 27.8 | 78 |
| .2 | 24.8 | 25.2 | 25.5 | 25.8 | 26.2 | 26.5 | 26.9 | 27.3 | 27.6 | 28.0 | 28.3 | .2 |
| .4 | 25.3 | 25.6 | 26.0 | 26.3 | 26.7 | 27.0 | 27.4 | 27.7 | 28.1 | 28.4 | 28.8 | .4 |
| .6 | 25.7 | 26.1 | 26.4 | 26.7 | 27.1 | 27.4 | 27.8 | 28.2 | 28.5 | 28.9 | 29.2 | .6 |
| .8 | 26.2 | 26.5 | 26.9 | 27.2 | 27.6 | 27.9 | 28.3 | 28.6 | 29.0 | 29.3 | 29.7 | .8 |
| 79 | 26.7 | 27.0 | 27.4 | 27.7 | 28.1 | 28.4 | 28.8 | 29.1 | 29.5 | 29.8 | 30.2 | 79 |
| .2 | 27.2 | 27.5 | 27.9 | 28.2 | 28.6 | 28.9 | 29.3 | 29.6 | 30.0 | 30.3 | 30.7 | .2 |
| .4 | 27.7 | 28.0 | 28.4 | 28.7 | 29.1 | 29.4 | 29.8 | 30.1 | 30.5 | 30.8 | 31.2 | .4 |
| .6 | 28.2 | 28.5 | 28.9 | 29.2 | 29.6 | 29.9 | 30.3 | 30.6 | 31.0 | 31.3 | 31.7 | .6 |
| .8 | 28.7 | 29.0 | 29.4 | 29.7 | 30.1 | 30.4 | 30.8 | 31.1 | 31.5 | 31.8 | 32.2 | .8 |
| 80 | 29.2 | 29.5 | 29.9 | 30.2 | 30.6 | 30.9 | 31.3 | 31.6 | 32.0 | 32.3 | 32.7 | 80 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 80 | 29.2 | 29.5 | 29.9 | 30.2 | 30.6 | 30.9 | 31.3 | 31.6 | 32.0 | 32.3 | 32.7 | 80 |
| .2 | 29.7 | 30.0 | 30.4 | 30.7 | 31.1 | 31.4 | 31.8 | 32.1 | 32.5 | 32.8 | 33.2 | .2 |
| .4 | 30.2 | 30.5 | 30.9 | 31.2 | 31.6 | 31.9 | 32.3 | 32.6 | 33.0 | 33.3 | 33.7 | .4 |
| .6 | 30.7 | 31.1 | 31.4 | 31.8 | 32.1 | 32.5 | 32.8 | 33.2 | 33.5 | 33.9 | 34.3 | .6 |
| .8 | 31.2 | 31.6 | 31.9 | 32.3 | 32.6 | 33.0 | 33.3 | 33.7 | 34.0 | 34.4 | 34.8 | .8 |
| 81 | 31.7 | 32.1 | 32.4 | 32.8 | 33.1 | 33.5 | 33.8 | 34.2 | 34.5 | 34.9 | 35.3 | 81 |
| .2 | 32.3 | 32.6 | 33.0 | 33.4 | 33.7 | 34.1 | 34.4 | 34.8 | 35.1 | 35.5 | 35.9 | .2 |
| .4 | 32.8 | 33.2 | 33.5 | 33.9 | 34.2 | 34.6 | 34.9 | 35.3 | 35.7 | 36.0 | 36.4 | .4 |
| .6 | 33.4 | 33.7 | 34.1 | 34.5 | 34.8 | 35.2 | 35.5 | 35.9 | 36.2 | 36.6 | 37.0 | .6 |
| .8 | 33.9 | 34.3 | 34.6 | 35.0 | 35.3 | 35.7 | 36.0 | 36.4 | 36.8 | 37.1 | 37.5 | .8 |
| 82 | 34.5 | 34.8 | 35.2 | 35.6 | 35.9 | 36.3 | 36.6 | 37.0 | 37.4 | 37.7 | 38.1 | 82 |
| .2 | 35.1 | 35.4 | 35.8 | 36.2 | 36.5 | 36.9 | 37.2 | 37.6 | 38.0 | 38.3 | 38.7 | .2 |
| .4 | 35.7 | 36.0 | 36.4 | 36.8 | 37.1 | 37.5 | 37.8 | 38.2 | 38.6 | 38.9 | 39.3 | .4 |
| .6 | 36.3 | 36.6 | 36.9 | 37.3 | 37.6 | 38.0 | 38.3 | 38.7 | 39.1 | 39.4 | 39.8 | .6 |
| .8 | 36.9 | 37.2 | 37.5 | 37.9 | 38.2 | 38.6 | 38.9 | 39.3 | 39.7 | 40.0 | 40.4 | .8 |
| 83 | 37.5 | 37.8 | 38.1 | 38.5 | 38.8 | 39.2 | 39.5 | 39.9 | 40.3 | 40.6 | 41.0 | 83 |
| .2 | 38.1 | 38.4 | 38.7 | 39.1 | 39.4 | 39.8 | 40.1 | 40.5 | 40.9 | 41.2 | 41.6 | .2 |
| .4 | 38.7 | 39.0 | 39.4 | 39.7 | 40.1 | 40.4 | 40.8 | 41.1 | 41.5 | 41.9 | 42.3 | .4 |
| .6 | 39.4 | 39.7 | 40.0 | 40.4 | 40.7 | 41.1 | 41.4 | 41.8 | 42.2 | 42.5 | 42.9 | .6 |
| .8 | 40.0 | 40.3 | 40.7 | 41.0 | 41.4 | 41.7 | 42.1 | 42.4 | 42.8 | 43.2 | 43.6 | .8 |
| 84 | 40.6 | 40.9 | 41.3 | 41.6 | 42.0 | 42.3 | 42.7 | 43.0 | 43.4 | 43.8 | 44.2 | 84 |
| .2 | 41.3 | 41.6 | 42.0 | 42.3 | 42.7 | 43.0 | 43.4 | 43.7 | 44.1 | 44.5 | 44.9 | .2 |
| .4 | 42.0 | 42.3 | 42.7 | 43.0 | 43.4 | 43.7 | 44.1 | 44.4 | 44.8 | 45.2 | 45.6 | .4 |
| .6 | 42.8 | 43.1 | 43.5 | 43.8 | 44.2 | 44.5 | 44.9 | 45.2 | 45.6 | 45.9 | 46.3 | .6 |
| .8 | 43.5 | 43.8 | 44.2 | 44.5 | 44.9 | 45.2 | 45.6 | 45.9 | 46.3 | 46.6 | 47.0 | .8 |
| 85 | 44.2 | 44.5 | 44.9 | 45.2 | 45.6 | 45.9 | 46.3 | 46.6 | 47.0 | 47.3 | 47.7 | 85 |
| .2 | 44.9 | 45.2 | 45.6 | 45.9 | 46.3 | 46.6 | 47.0 | 47.4 | 47.8 | 48.1 | 48.5 | .2 |
| .4 | 45.7 | 46.0 | 46.4 | 46.7 | 47.1 | 47.4 | 47.8 | 48.1 | 48.6 | 48.9 | 49.3 | .4 |
| .6 | 46.4 | 46.7 | 47.1 | 47.4 | 47.8 | 48.1 | 48.5 | 48.9 | 49.3 | 49.7 | 50.1 | .6 |
| .8 | 47.2 | 47.5 | 47.9 | 48.2 | 48.6 | 48.9 | 49.3 | 49.6 | 50.1 | 50.5 | 50.9 | .8 |
| 86 | 47.9 | 48.2 | 48.6 | 48.9 | 49.3 | 49.6 | 50.0 | 50.4 | 50.9 | 51.3 | 51.7 | 86 |
| .2 | 48.8 | 49.1 | 49.5 | 49.8 | 50.2 | 50.5 | 50.9 | 51.3 | 51.7 | 52.1 | 52.5 | .2 |
| .4 | 49.6 | 49.9 | 50.3 | 50.7 | 51.0 | 51.4 | 51.8 | 52.1 | 52.6 | 53.0 | 53.3 | .4 |
| .6 | 50.5 | 50.8 | 51.2 | 51.5 | 51.9 | 52.2 | 52.6 | 53.0 | 53.4 | 53 8 | 54.2 | .6 |
| .8 | 51.3 | 51.6 | 52.0 | 52.4 | 52.7 | 53.1 | 53.5 | 53.8 | 54.3 | 54.7 | 55.0 | .8 |
| 87 | 52.2 | 52.5 | 52.9 | 53.3 | 53.6 | 54.0 | 54.4 | 54.7 | 55.1 | 55.5 | 55.8 | 87 |
| .2 | 53.2 | 53.5 | 53.9 | 54.2 | 54.5 | 54.9 | 55.3 | 55.6 | 56.0 | 56.4 | 56.7 | .2 |
| .4 | 54.1 | 54.4 | 54.8 | 55.2 | 55.5 | 55.8 | 56.2 | 56.5 | 56.9 | 57.3 | 57.6 | .4 |
| .6 | 55.1 | 55.4 | 55.8 | 56.1 | 56.4 | 56.8 | 57.2 | 57.5 | 57.8 | 58.1 | 58.4 | .6 |
| .8 | 56.0 | 56.3 | 56.7 | 57.1 | 57.4 | 57.7 | 58.1 | 58.4 | 58.7 | 59.0 | 59.3 | .8 |
| 88 | 57.0 | 57.3 | 57.7 | 58.0 | 58.3 | 58.6 | 59.0 | 59.3 | 59.6 | 59.9 | 60.2 | 88 |
| .2 | 58.0 | 58.3 | 58.7 | 59.0 | 59.2 | 59.5 | 59.9 | 60.2 | 60.5 | 60.8 | 61.1 | .2 |
| .4 | 59.0 | 59.3 | 59.6 | 59.9 | 60.2 | 60.5 | 60.8 | 61.1 | 61.4 | 61.7 | 61.9 | .4 |
| .6 | 59.9 | 60.2 | 60.6 | 60.9 | 61.1 | 61.4 | 61.7 | 62.0 | 62.2 | 62.5 | 62.8 | .6 |
| .8 | 60.9 | 61.2 | 61.5 | 61.8 | 62.1 | 62.4 | 62.6 | 62.9 | 63.1 | 63.4 | 63.6 | .8 |
| 89 | 61.9 | 62.2 | 62.5 | 62.8 | 63.0 | 63.3 | 63.5 | 63.8 | 64.0 | 64.3 | 64.5 | 89 |
| .2 | 62.9 | 63.1 | 63.4 | 63.7 | 63.9 | 64.2 | 64.4 | 64.7 | 64.9 | 65.1 | 65.3 | .2 |
| .4 | 63.9 | 64.1 | 64.3 | 64.6 | 64.8 | 65.1 | 65.3 | 65.5 | 65.7 | 66.0 | 66.2 | .4 |
| .6 | 64.8 | 65.0 | 65.3 | 65.5 | 65.7 | 65.9 | 66.1 | 66.4 | 66.6 | 66.8 | 67.0 | .6 |
| .8 | 65.8 | 66.0 | 66.2 | 66.4 | 66.6 | 66.8 | 67.0 | 67.2 | 67.4 | 67.7 | 67.9 | .8 |
| 90 | 66.8 | 66.9 | 67.1 | 67.3 | 67.5 | 67.7 | 67.9 | 68.1 | 68.3 | 68.5 | 68.7 | 90 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | |
| 90 | 66.8 | 66.9 | 67.1 | 67.3 | 67.5 | 67.7 | 67.9 | 68.1 | 68.3 | 68.5 | 68.7 | 90 |
| .2 | 67.7 | 67.8 | 68.0 | 68.2 | 68.3 | 68.5 | 68.7 | 68.9 | 69.1 | 69.3 | 69.5 | .2 |
| .4 | 68.6 | 68.7 | 68.9 | 69.0 | 69.2 | 69.3 | 69.5 | 69.7 | 69.9 | 70.1 | 70.3 | .4 |
| .6 | 69.4 | 69.5 | 69.7 | 69.9 | 70.0 | 70.2 | 70.4 | 70.6 | 70.7 | 71.0 | 71.1 | .6 |
| .8 | 70.3 | 70.4 | 70.6 | 70.7 | 70.9 | 71.0 | 71.2 | 71.4 | 71.5 | 71.8 | 71.9 | .8 |
| 91 | 71.2 | 71.3 | 71.5 | 71.6 | 71.7 | 71.8 | 72.0 | 72.2 | 72.3 | 72.6 | 72.7 | 91 |
| .2 | 72.1 | 72.2 | 72.3 | 72.4 | 72.5 | 72.6 | 72.8 | 73.0 | 73.1 | 73.3 | 73.4 | .2 |
| .4 | 72.9 | 73.0 | 73.1 | 73.2 | 73.3 | 73.4 | 73.6 | 73.8 | 73.9 | 74.1 | 74.2 | .4 |
| .6 | 73.8 | 73.9 | 74.0 | 74.1 | 74.2 | 74.3 | 74.4 | 74.5 | 74.6 | 74.8 | 74.9 | .6 |
| .8 | 74.6 | 74.7 | 74.8 | 74.9 | 75.0 | 75.1 | 75.2 | 75.3 | 75.4 | 75.6 | 75.7 | .8 |
| 92 | 75.5 | 75.6 | 75.6 | 75.7 | 75.8 | 75.9 | 76.0 | 76.1 | 76.2 | 76.3 | 76.4 | 92 |
| .2 | 76.3 | 76.4 | 76.4 | 76.5 | 76.6 | 76.6 | 76.7 | 76.8 | 76.9 | 77.0 | 77.1 | .2 |
| .4 | 77.1 | 77.1 | 77.2 | 77.2 | 77.3 | 77.5 | 77.5 | 77.5 | 77.6 | 77.7 | 77.8 | .4 |
| .6 | 77.8 | 77.9 | 77.9 | 78.0 | 78.1 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 78.6 | .6 |
| .8 | 78.6 | 78.6 | 78.7 | 78.7 | 78.8 | 78.9 | 79.0 | 79.0 | 79.1 | 79.2 | 79.3 | .8 |
| 93 | 79.4 | 79.4 | 79.5 | 79.5 | 79.6 | 79.6 | 79.7 | 79.7 | 79.8 | 79.9 | 80.0 | 93 |
| .2 | 80.1 | 80.1 | 80.2 | 80.2 | 80.3 | 80.3 | 80.4 | 80.4 | 80.5 | 80.6 | 80.7 | .2 |
| .4 | 80.8 | 80.8 | 80.9 | 80.9 | 81.0 | 81.0 | 81.1 | 81.1 | 81.2 | 81.3 | 81.3 | .4 |
| .6 | 81.5 | 81.6 | 81.6 | 81.6 | 81.6 | 81.7 | 81.7 | 81.8 | 81.8 | 81.9 | 82.0 | .6 |
| .8 | 82.2 | 82.3 | 82.3 | 82.3 | 82.3 | 82.4 | 82.4 | 82.5 | 82.5 | 82.6 | 82.6 | .8 |
| 94 | 82.9 | 83.0 | 83.0 | 83.0 | 83.0 | 83.1 | 83.1 | 83.2 | 83.2 | 83.3 | 83.3 | 94 |
| .2 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.8 | 83.8 | 83.9 | 83.9 | .2 |
| .4 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.6 | .4 |
| .6 | 84.9 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.1 | 85.1 | 85.2 | 85.2 | .6 |
| .8 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.9 | .8 |
| 95 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.4 | 86.4 | 86.4 | 86.5 | 95 |
| .2 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 87.0 | 87.0 | 87.0 | 87.1 | .2 |
| .4 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.6 | 87.6 | 87.6 | 87.7 | .4 |
| .6 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | .6 |
| .8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | .8 |
| 96 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 96 |
| .2 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | .2 |
| .4 | 90.6 | 90.6 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | .4 |
| .6 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | .6 |
| .8 | 91.7 | 91.7 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | .8 |
| 97 | 92.3 | 92.3 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 97 |
| .2 | 92.8 | 92.8 | 92.8 | 92.8 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | .2 |
| .4 | 93.4 | 93.4 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | .4 |
| .6 | 93.9 | 93.9 | 93.9 | 93.9 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | .6 |
| .8 | 94.5 | 94.5 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | .8 |
| 98 | 95.0 | 95.0 | 95.0 | 95.0 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 98 |
| .2 | 95.5 | 95.5 | 95.5 | 95.5 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | .2 |
| .4 | 96.0 | 96.0 | 96.0 | 96.0 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | .4 |
| .6 | 96.6 | 96.6 | 96.5 | 96.5 | 96.5 | 96.5 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | .6 |
| .8 | 97.1 | 97.1 | 97.0 | 97.0 | 97.0 | 97.0 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | .8 |
| 99 | 97.6 | 97.6 | 97.5 | 97.5 | 97.5 | 97.5 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 99 |
| .2 | 98.1 | 98.1 | 98.0 | 98.0 | 98.0 | 98.0 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | .2 |
| .4 | 98.6 | 98.6 | 98.5 | 98.5 | 98.5 | 98.5 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | .4 |
| .6 | 99.0 | 99.0 | 99.0 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.8 | 98.8 | 98.8 | .6 |
| .8 | 99.5 | 99.5 | 99.5 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.3 | 99.3 | 99.3 | .8 |
| 100 | — | — | 100.0 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.8 | 99.8 | 99.8 | 100 |
| INDICATION. | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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# SIKES'S

## TABLE

OF THE

## CONCENTRATED STRENGTH

OF

# SPIRITS,

*(Continued,)*

## TEMPERATURE

40° TO 50°.

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | — | — | — | — | — | — | — | 70.0 | 69.8 | 69.5 | 69 3 | 0 |
| .2 | — | — | — | — | — | — | — | 69.8 | 69.6 | 69.3 | 69.1 | .2 |
| .4 | — | — | — | — | — | — | 69.9 | 69.6 | 69.4 | 69.2 | 69.0 | .4 |
| .6 | — | — | — | — | — | 70.0 | 69.8 | 69.5 | 69.3 | 69.0 | 68.8 | .6 |
| .8 | — | — | — | — | — | 69.8 | 69.6 | 69.3 | 69.1 | 68.9 | 68 7 | .8 |
| 1 | — | — | — | — | 69.9 | 69.6 | 69.4 | 69.1 | 68.9 | 68.7 | 68.5 | 1 |
| .2 | — | — | — | 69.9 | 69.7 | 69.4 | 69.2 | 68.9 | 68.7 | 68.5 | 68.3 | .2 |
| .4 | — | — | 69.9 | 69.7 | 69.5 | 69.3 | 69.1 | 68.8 | 68.6 | 68.4 | 68.2 | .4 |
| .6 | — | — | 69.8 | 69.6 | 69.4 | 69.1 | 68.9 | 68.6 | 68.4 | 68.2 | 68.0 | .6 |
| .8 | — | 69.9 | 69.6 | 69.4 | 69.2 | 69.0 | 68.8 | 68.5 | 68.3 | 68.1 | 67.9 | .8 |
| 2 | 69.9 | 69.7 | 69.4 | 69.2 | 69.0 | 68.8 | 68.6 | 68.3 | 68.1 | 67.9 | 67.7 | 2 |
| .2 | 69.7 | 69.5 | 69.2 | 69.0 | 68.8 | 68.6 | 68.4 | 68.1 | 67.9 | 67.7 | 67.5 | .2 |
| .4 | 69.5 | 69.3 | 69.1 | 68.9 | 68.7 | 68.5 | 68.2 | 68.0 | 67.8 | 67.6 | 67.3 | .4 |
| .6 | 69.4 | 69.2 | 68.9 | 68.7 | 68.5 | 68.3 | 68.1 | 67.8 | 67.6 | 67.4 | 67.2 | .6 |
| .8 | 69.2 | 69.0 | 68.8 | 68.6 | 68.4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.3 | 67.0 | .8 |
| 3 | 69.0 | 68.8 | 68.6 | 68.4 | 68 2 | 68.0 | 67.7 | 67.5 | 67.3 | 67.1 | 66.8 | 3 |
| .2 | 68.8 | 68.6 | 68.4 | 68.2 | 68.0 | 67.8 | 67.5 | 67.3 | 67.1 | 66.9 | 66.6 | .2 |
| .4 | 68.7 | 68.5 | 68.3 | 68.1 | 67.8 | 67.6 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 | .4 |
| .6 | 68.5 | 68.3 | 68.1 | 67.9 | 67.7 | 67.5 | 67.2 | 67.0 | 66.8 | 66.6 | 66.3 | .6 |
| .8 | 68.4 | 68.2 | 68.0 | 67.8 | 67.5 | 67.3 | 67.1 | 66.9 | 66.6 | 66.4 | 66.2 | .8 |
| 4 | 68.2 | 68.0 | 67.8 | 67.6 | 67.3 | 67.2 | 66.9 | 66.7 | 66.4 | 66.2 | 66.0 | 4 |
| .2 | 68.0 | 67.8 | 67.6 | 67.4 | 67.1 | 66.9 | 66.7 | 66.5 | 66.2 | 66.0 | 65.8 | .2 |
| .4 | 67.9 | 67.7 | 67.5 | 67.2 | 67.0 | 66.8 | 66.6 | 66.3 | 66.1 | 65.9 | 65.7 | .4 |
| .6 | 67.7 | 67.5 | 67.3 | 67.1 | 66.8 | 66.6 | 66.4 | 66.2 | 65.9 | 65.7 | 65.5 | .6 |
| .8 | 67.6 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 | 66.3 | 66.0 | 65.8 | 65.6 | 65.4 | .8 |
| 5 | 67.4 | 67.2 | 67.0 | 66.7 | 66.5 | 66.3 | 66.1 | 65.8 | 65.6 | 65.4 | 65.2 | 5 |
| .2 | 67.2 | 67.0 | 66.8 | 66.5 | 66.3 | 66.1 | 65.9 | 65.6 | 65.4 | 65.2 | 65.0 | .2 |
| .4 | 67.0 | 66.8 | 66.6 | 66.4 | 66.1 | 65.9 | 65.7 | 65.5 | 65.2 | 65.0 | 64.8 | .4 |
| .6 | 66.9 | 66.7 | 66.5 | 66.2 | 66.0 | 65.8 | 65.6 | 65.3 | 65.1 | 64.9 | 64.7 | .6 |
| .8 | 66.7 | 66.5 | 66.3 | 66.1 | 65.8 | 65.6 | 65.4 | 65.2 | 64.9 | 64.7 | 64.5 | .8 |
| 6 | 66.5 | 66.3 | 66.1 | 65.9 | 65.6 | 65.4 | 65.2 | 65.0 | 64.7 | 64.5 | 64.3 | 6 |
| .2 | 66.3 | 66.1 | 65.9 | 65.7 | 65.4 | 65.2 | 65.0 | 64.8 | 64.5 | 64.3 | 64.1 | .2 |
| .4 | 66.2 | 65.9 | 65.7 | 65.5 | 65.3 | 65.0 | 64.8 | 64.6 | 64.3 | 64.1 | 63.9 | .4 |
| .6 | 66.0 | 65.8 | 65.6 | 65.4 | 65.1 | 64.9 | 64.7 | 64.5 | 64.2 | 64.0 | 63.8 | .6 |
| .8 | 65.9 | 65.6 | 65.4 | 65.2 | 65.0 | 64.7 | 64.5 | 64.3 | 64.0 | 63.8 | 63.6 | .8 |
| 7 | 65.7 | 65.4 | 65.2 | 65.0 | 64.8 | 64.5 | 64.3 | 64.1 | 63.8 | 63.6 | 63.4 | 7 |
| .2 | 65.5 | 65.2 | 65.0 | 64.8 | 64.6 | 64.3 | 64.1 | 63.9 | 63.6 | 63.4 | 63.2 | .2 |
| .4 | 65.3 | 65.1 | 64.9 | 64.7 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.2 | 63.0 | .4 |
| .6 | 65.2 | 64.9 | 64.7 | 64.5 | 64.3 | 64.0 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | .6 |
| .8 | 65.0 | 64.8 | 64.6 | 64.4 | 64.1 | 63.9 | 63.7 | 63.4 | 63.2 | 62.9 | 62.7 | .8 |
| 8 | 64.8 | 64.6 | 64.4 | 64.2 | 63.9 | 63.7 | 63.5 | 63.2 | 63.0 | 62.7 | 62.5 | 8 |
| .2 | 64.6 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.3 | 63.0 | 62.8 | 62.5 | 62.3 | .2 |
| .4 | 64.5 | 64.2 | 64.0 | 63.8 | 63.5 | 63.3 | 63.1 | 62.9 | 62.6 | 62.3 | 62.1 | .4 |
| .6 | 64.3 | 64.1 | 63.9 | 63.7 | 63.4 | 63.2 | 63.0 | 62.7 | 62.5 | 62.2 | 62.0 | .6 |
| .8 | 64.2 | 63.9 | 63.7 | 63.5 | 63.2 | 63.0 | 62.8 | 62.6 | 62.3 | 62.0 | 61.8 | .8 |
| 9 | 64.0 | 63.7 | 63.5 | 63.3 | 63.0 | 62.8 | 62.6 | 62.4 | 62.1 | 61.8 | 61.6 | 9 |
| .2 | 63.8 | 63.5 | 63.3 | 63.1 | 62.8 | 62.6 | 62.4 | 62.2 | 61.9 | 61.6 | 61.4 | .2 |
| .4 | 63.6 | 63.3 | 63.1 | 62.9 | 62.7 | 62.4 | 62.2 | 62.0 | 61.7 | 61.4 | 61.2 | .4 |
| .6 | 63.5 | 63.2 | 63.0 | 62.8 | 62.5 | 62.3 | 62.1 | 61.9 | 61.6 | 61.3 | 61.1 | .6 |
| .8 | 63.3 | 63.0 | 62.8 | 62.6 | 62.4 | 62.1 | 61.9 | 61.7 | 61.4 | 61.1 | 60.9 | .8 |
| 10 | 63.1 | 62.8 | 62.6 | 62.4 | 62.2 | 61.9 | 61.7 | 61 5 | 61.2 | 60.9 | 60.7 | 10 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 63.1 | 62.8 | 62.6 | 62.4 | 62.2 | 61.9 | 61.7 | 61.5 | 61.2 | 60.9 | 60.7 | 10 |
| .2 | 62.9 | 62.6 | 62.4 | 62.2 | 62.0 | 61.7 | 61.5 | 61.3 | 61.0 | 60.7 | 60.5 | .2 |
| .4 | 62.7 | 62.4 | 62.2 | 62.0 | 61.8 | 61.5 | 61.3 | 61.1 | 60.8 | 60.5 | 60.3 | .4 |
| .6 | 62.6 | 62.3 | 62.1 | 61.9 | 61.7 | 61.4 | 61.2 | 61.0 | 60.7 | 60.4 | 60.2 | .6 |
| .8 | 62.4 | 62.1 | 61.9 | 61.7 | 61.5 | 61.2 | 61.0 | 60.8 | 60.5 | 60.2 | 60.0 | .8 |
| 11 | 62.2 | 61.9 | 61.7 | 61.5 | 61.3 | 61.0 | 60.8 | 60.6 | 60.3 | 60.0 | 59.8 | 11 |
| .2 | 62.0 | 61.7 | 61.5 | 61.3 | 61.1 | 60.8 | 60.6 | 60.4 | 60.1 | 59.8 | 59.6 | .2 |
| .4 | 61.8 | 61.6 | 61.4 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 59.9 | 59.6 | 59.4 | .4 |
| .6 | 61.7 | 61.4 | 61.2 | 61.0 | 60.8 | 60.5 | 60.3 | 60.1 | 59.8 | 59.5 | 59.3 | .6 |
| .8 | 61.5 | 61.3 | 61.1 | 60.8 | 60.6 | 60.3 | 60.1 | 59.9 | 59.6 | 59.3 | 59.1 | .8 |
| 12 | 61.3 | 61.1 | 60.9 | 60.6 | 60.4 | 60.1 | 59.9 | 59.7 | 59.4 | 59.1 | 58.9 | 12 |
| .2 | 61.1 | 60.9 | 60.7 | 60.4 | 60.2 | 59.9 | 59.7 | 59.5 | 59.2 | 58.9 | 58.7 | .2 |
| .4 | 60.9 | 60.7 | 60.5 | 60.2 | 60.0 | 59.7 | 59.5 | 59.3 | 59.0 | 58.7 | 58.5 | .4 |
| .6 | 60.8 | 60.6 | 60.4 | 60.1 | 59.9 | 59.6 | 59.4 | 59.2 | 58.9 | 58.6 | 58.4 | .6 |
| .8 | 60.6 | 60.4 | 60.2 | 59.9 | 59.7 | 59.4 | 59.2 | 59.0 | 58.7 | 58.4 | 58.2 | .8 |
| 13 | 60.4 | 60.2 | 60.0 | 59.7 | 59.5 | 59.2 | 59.0 | 58.8 | 58.5 | 58.2 | 58.0 | 13 |
| .2 | 60.2 | 60.0 | 59.8 | 59.5 | 59.3 | 59.0 | 58.8 | 58.6 | 58.3 | 58.0 | 57.8 | .2 |
| .4 | 60.0 | 59.8 | 59.6 | 59.3 | 59.1 | 58.8 | 58.6 | 58.4 | 58.1 | 57.8 | 57.6 | .4 |
| .6 | 59.9 | 59.7 | 59.5 | 59.2 | 59.0 | 58.7 | 58.5 | 58.3 | 58.0 | 57.7 | 57.5 | .6 |
| .8 | 59.7 | 59.5 | 59.3 | 59.0 | 58.8 | 58.5 | 58.3 | 58.1 | 57.8 | 57.5 | 57.3 | .8 |
| 14 | 59.5 | 59.3 | 59.1 | 58.8 | 58.6 | 58.3 | 58.1 | 57.9 | 57.6 | 57.3 | 57.1 | 14 |
| .2 | 59.3 | 59.1 | 58.9 | 58.6 | 58.4 | 58 1 | 57.9 | 57.7 | 57.4 | 57.1 | 56.9 | .2 |
| .4 | 59.1 | 58.9 | 58.7 | 58.4 | 58.2 | 57.9 | 57.7 | 57.5 | 57.2 | 56.9 | 56.7 | .4 |
| .6 | 59.0 | 58.8 | 58.6 | 58.3 | 58.0 | 57.8 | 57.6 | 57.3 | 57.1 | 56.8 | 56.6 | .6 |
| .8 | 58.8 | 58.6 | 58.4 | 58.1 | 57.8 | 57.6 | 57.4 | 57.1 | 56.9 | 56.6 | 56.4 | .8 |
| 15 | 58.6 | 58.4 | 58.2 | 57.9 | 57.6 | 57.4 | 57.2 | 56.9 | 56.7 | 56.4 | 56.2 | 15 |
| .2 | 58.4 | 58.2 | 58.0 | 57.7 | 57.4 | 57.2 | 57.0 | 56.7 | 56.5 | 56.2 | 56.0 | .2 |
| .4 | 58.2 | 58.0 | 57.8 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | 56.3 | 56.0 | 55.8 | .4 |
| .6 | 58.1 | 57.8 | 57.6 | 57.4 | 57.1 | 56.8 | 56.6 | 56.4 | 56.1 | 55.9 | 55.7 | .6 |
| .8 | 57.9 | 57.6 | 57.4 | 57.2 | 56.9 | 56.6 | 56.4 | 56.2 | 55.9 | 55.7 | 55.5 | .8 |
| 16 | 57.7 | 57.4 | 57.2 | 57.0 | 56.7 | 56.4 | 56.2 | 56.0 | 55.7 | 55.5 | 55.3 | 16 |
| .2 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | 56.2 | 56.0 | 55.8 | 55.5 | 55.3 | 55.1 | .2 |
| .4 | 57.3 | 57.0 | 56.8 | 56.6 | 56.3 | 56.0 | 55.8 | 55.6 | 55.3 | 55.1 | 54.9 | .4 |
| .6 | 57.1 | 56.9 | 56.7 | 56.4 | 56.2 | 55.9 | 55.7 | 55.4 | 55.2 | 55.0 | 54.7 | .6 |
| .8 | 56.9 | 56.7 | 56.5 | 56.2 | 56.0 | 55.7 | 55.5 | 55.2 | 55.0 | 54.8 | 54.5 | .8 |
| 17 | 56.7 | 56.5 | 56.3 | 56.0 | 55.8 | 55.5 | 55.3 | 55.0 | 54.8 | 54.6 | 54.3 | 17 |
| .2 | 56.5 | 56.3 | 56.1 | 55.8 | 55.6 | 55.3 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | .2 |
| .4 | 56.3 | 56.1 | 55.9 | 55.6 | 55.4 | 55.1 | 54.9 | 54.6 | 54.4 | 54.2 | 53.9 | .4 |
| .6 | 56.2 | 55.9 | 55.7 | 55.5 | 55.2 | 55.0 | 54.8 | 54.5 | 54.2 | 54.0 | 53.7 | .6 |
| .8 | 56.0 | 55.7 | 55.5 | 55.3 | 55.0 | 54.8 | 54.6 | 54.3 | 54.0 | 53.8 | 53.5 | .8 |
| 18 | 55.8 | 55.5 | 55.3 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | 53.8 | 53.6 | 53.3 | 18 |
| .2 | 55.6 | 55.3 | 55.1 | 54.9 | 54.6 | 54.4 | 54.2 | 53.9 | 53.6 | 53.4 | 53.1 | .2 |
| .4 | 55.4 | 55.1 | 54.9 | 54.7 | 54.4 | 54.2 | 54.0 | 53.7 | 53.4 | 53.2 | 52.9 | .4 |
| .6 | 55.2 | 55.0 | 54.8 | 54.5 | 54.2 | 54.0 | 53.8 | 53.5 | 53.2 | 53.0 | 52.8 | .6 |
| .8 | 55.0 | 54.8 | 54.6 | 54.3 | 54.0 | 53.8 | 53.6 | 53.3 | 53.0 | 52.8 | 52.6 | .8 |
| 19 | 54.8 | 54.6 | 54.4 | 54.1 | 53.8 | 53.6 | 53.4 | 53.1 | 52.8 | 52.6 | 52.4 | 19 |
| .2 | 54.6 | 54.4 | 54.2 | 53.9 | 53.6 | 53.4 | 53.2 | 52.9 | 52.6 | 52.4 | 52.2 | .2 |
| .4 | 54.4 | 54.2 | 54.0 | 53.7 | 53.4 | 53.2 | 53.0 | 52.7 | 52.4 | 52.2 | 52.0 | .4 |
| .6 | 54.2 | 54.0 | 53.8 | 53.5 | 53.2 | 53.0 | 52.8 | 52.5 | 52.3 | 52.0 | 51.8 | .6 |
| .8 | 54.0 | 53.8 | 53.6 | 53.3 | 53.0 | 52.8 | 52.6 | 52.3 | 52.1 | 51.8 | 51.6 | .8 |
| 20 | 53.8 | 53.6 | 53.4 | 53.1 | 52.8 | 52.6 | 52.4 | 52.1 | 51.9 | 51.6 | 51.4 | 20 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | |
| 20 | 53.8 | 53.6 | 53.4 | 53.1 | 52.8 | 52.6 | 52.4 | 52.1 | 51.9 | 51.6 | 51.4 | 20 |
| .2 | 53.6 | 53.4 | 53.2 | 52.9 | 52.6 | 52.4 | 52.2 | 51.9 | 51.7 | 51.4 | 51.2 | .2 |
| .4 | 53.4 | 53.2 | 53.0 | 52.7 | 52.4 | 52.2 | 52.0 | 51.7 | 51.5 | 51.2 | 51.0 | .4 |
| .6 | 53.3 | 53.1 | 52.8 | 52.5 | 52.3 | 52.1 | 51.8 | 51.5 | 51.3 | 51.0 | 50.8 | .6 |
| .8 | 53.1 | 52.9 | 52.6 | 52.3 | 52.1 | 51.9 | 51.6 | 51.3 | 51.1 | 50.8 | 50.6 | .8 |
| 21 | 52.9 | 52.7 | 52.4 | 52.1 | 51.9 | 51.7 | 51.3 | 51.1 | 50.9 | 50.6 | 50.4 | 21 |
| .2 | 52.7 | 52.5 | 52.2 | 51.9 | 51.7 | 51.5 | 51.2 | 50.9 | 50.7 | 50.4 | 50.2 | .2 |
| .4 | 52.5 | 52.3 | 52.0 | 51.7 | 51.5 | 51.3 | 51.0 | 50.7 | 50.5 | 50.2 | 50.0 | .4 |
| .6 | 52.3 | 52.1 | 51.8 | 51.6 | 51.4 | 51.1 | 50.8 | 50.5 | 50.3 | 50.0 | 49.8 | .6 |
| .8 | 52.1 | 51.9 | 51.6 | 51.4 | 51.2 | 50.9 | 50.6 | 50.3 | 50.1 | 49.8 | 49.6 | .8 |
| 22 | 51.9 | 51.7 | 51.4 | 51.2 | 51.0 | 50.7 | 50.4 | 50.1 | 49.9 | 49.6 | 49.4 | 22 |
| .2 | 51.7 | 51.5 | 51.2 | 51.0 | 50.8 | 50.5 | 50.2 | 49.9 | 49.7 | 49.4 | 49.2 | .2 |
| .4 | 51.5 | 51.3 | 51.0 | 50.8 | 50.6 | 50.3 | 50.0 | 49.7 | 49.5 | 49.2 | 49.0 | .4 |
| .6 | 51.4 | 51.1 | 50.8 | 50.6 | 50.4 | 50.1 | 49.8 | 49.6 | 49.3 | 49.0 | 48.8 | .6 |
| .8 | 51.2 | 50.9 | 50.6 | 50.4 | 50.2 | 49.9 | 49.6 | 49.4 | 49.1 | 48.8 | 48.6 | .8 |
| 23 | 51.0 | 50.7 | 50.4 | 50.2 | 50.0 | 49.7 | 49.4 | 49.2 | 48.9 | 48.6 | 48.4 | 23 |
| .2 | 50.8 | 50.5 | 50.2 | 50.0 | 49.8 | 49.5 | 49.2 | 49.0 | 48.7 | 48.4 | 48.2 | .2 |
| .4 | 50.6 | 50.3 | 50.0 | 49.8 | 49.6 | 49.3 | 49.0 | 48.8 | 48.5 | 48.2 | 48.0 | .4 |
| .6 | 50.4 | 50.1 | 49.8 | 49.6 | 49.4 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | .6 |
| .8 | 50.2 | 49.9 | 49.6 | 49.4 | 49.2 | 48.9 | 48.6 | 48.3 | 48.0 | 47.7 | 47.5 | .8 |
| 24 | 50.0 | 49.7 | 49.4 | 49.2 | 49.0 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.3 | 24 |
| .2 | 49.8 | 49.5 | 49.2 | 49.0 | 48.8 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.1 | .2 |
| .4 | 49.6 | 49.3 | 49.0 | 48.8 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.9 | .4 |
| .6 | 49.4 | 49.1 | 48.8 | 48.5 | 48.3 | 48.0 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | .6 |
| .8 | 49.2 | 48.9 | 48.6 | 48.3 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | 46.7 | 46.5 | .8 |
| 25 | 49.0 | 48.7 | 48.4 | 48.1 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 | 46.3 | 25 |
| .2 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | 46.3 | 46.1 | .2 |
| .4 | 48.6 | 48.3 | 48.0 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | .4 |
| .6 | 48.3 | 48.0 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | .6 |
| .8 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | 46.7 | 46.5 | 46.2 | 45.9 | 45.7 | 45.4 | .8 |
| 26 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 | 46.3 | 46.0 | 45.7 | 45.5 | 45.2 | 26 |
| .2 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | 46.3 | 46.1 | 45.8 | 45.5 | 45.3 | 45.0 | .2 |
| .4 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.1 | 44.8 | .4 |
| .6 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | 45.9 | 45.7 | 45.4 | 45.1 | 44.9 | 44.6 | .6 |
| .8 | 47.0 | 46.7 | 46.5 | 46.2 | 45.9 | 45.7 | 45.5 | 45.2 | 44.9 | 44.7 | 44.4 | .8 |
| 27 | 46.8 | 46.5 | 46.3 | 46.0 | 45.7 | 45.5 | 45.3 | 45.0 | 44.7 | 44.5 | 44.2 | 27 |
| .2 | 46.6 | 46.3 | 46.1 | 45.8 | 45.5 | 45.3 | 45.1 | 44.8 | 44.5 | 44.3 | 44.0 | .2 |
| .4 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.1 | 44.9 | 44.6 | 44.3 | 44.1 | 43.8 | .4 |
| .6 | 46.1 | 45.9 | 45.7 | 45.4 | 45.1 | 44.9 | 44.6 | 44.3 | 44.0 | 43.8 | 43.5 | .6 |
| .8 | 45.9 | 45.7 | 45.5 | 45.2 | 44.9 | 44.7 | 44.4 | 44.1 | 43.8 | 43.6 | 43.3 | .8 |
| 28 | 45.7 | 45.5 | 45.3 | 45.0 | 44.7 | 44.5 | 44.2 | 43.9 | 43.7 | 43.4 | 43.1 | 28 |
| .2 | 45.5 | 45.3 | 45.1 | 44.8 | 44.5 | 44.3 | 44.0 | 43.7 | 43.4 | 43.2 | 42.9 | .2 |
| .4 | 45.3 | 45.1 | 44.9 | 44.6 | 44.3 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.7 | .4 |
| .6 | 45.1 | 44.9 | 44.6 | 44.3 | 44.0 | 43.8 | 43.5 | 43.2 | 42.9 | 42.7 | 42.4 | .6 |
| .8 | 44.9 | 44.7 | 44.4 | 44.1 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.2 | .8 |
| 29 | 44.7 | 44.5 | 44.2 | 43.9 | 43.7 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 42.0 | 29 |
| .2 | 44.5 | 44.3 | 44.0 | 43.7 | 43.4 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.8 | .2 |
| .4 | 44.3 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.7 | 42.4 | 42.1 | 41.8 | 41.6 | .4 |
| .6 | 44.0 | 43.8 | 43.5 | 43.2 | 42.9 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.3 | .6 |
| .8 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.2 | 41.9 | 41.6 | 41.3 | 41.1 | .8 |
| 30 | 43.6 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.7 | 41.4 | 41.1 | 40.9 | 30 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 43.6 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.7 | 41.4 | 41.1 | 40.9 | 30 |
| .2 | 43.4 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.8 | 41.5 | 41.2 | 40.2 | 40.7 | .2 |
| .4 | 43.2 | 42.9 | 42.7 | 42.4 | 42.1 | 41.8 | 41.6 | 41.3 | 41 0 | 40.7 | 40.5 | .4 |
| .6 | 42.9 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.3 | 41.0 | 40.7 | 40.4 | 40 2 | .6 |
| .8 | 42.7 | 42.4 | 42.2 | 41.9 | 41.6 | 41.3 | 41.1 | 40.8 | 40.5 | 40.2 | 40.0 | .8 |
| 31 | 42.5 | 42.2 | 42.0 | 41.7 | 41.4 | 41.1 | 40.9 | 40.6 | 40.3 | 40.0 | 39.8 | 31 |
| .2 | 42.3 | 42.0 | 41.8 | 41.5 | 41.2 | 40.9 | 40.7 | 40.4 | 40.1 | 39.8 | 39.6 | .2 |
| .4 | 42.1 | 41.8 | 41.6 | 41.3 | 41.0 | 40.7 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | .4 |
| .6 | 41.8 | 41.5 | 41.3 | 41.0 | 40.7 | 40.4 | 40.2 | 39.9 | 39.6 | 39.3 | 39 1 | .6 |
| .8 | 41.6 | 41.3 | 41.1 | 40.8 | 40.5 | 40.2 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | .8 |
| 32 | 41.4 | 41.1 | 40.9 | 40.6 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 38 9 | 38 6 | 32 |
| .2 | 41.2 | 40.9 | 40.7 | 40.4 | 40.1 | 39.8 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | .2 |
| .4 | 41.0 | 40.7 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.8 | 38.5 | 38.2 | .4 |
| .6 | 40.7 | 40.4 | 40.2 | 39.9 | 39.6 | 39.3 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | .6 |
| .8 | 40.5 | 40.2 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.3 | 38.0 | 37.7 | .8 |
| 33 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.1 | 37.8 | 37 5 | 33 |
| .2 | 40.1 | 39.8 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.9 | 37.6 | 37.3 | .2 |
| .4 | 39.9 | 39.6 | 39.3 | 39.0 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | .4 |
| .6 | 39.6 | 39.3 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.4 | 37.1 | 36.8 | .6 |
| .8 | 39.4 | 39.1 | 38.8 | 38.5 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | .8 |
| 34 | 39.2 | 38.9 | 38.6 | 38.3 | 38.1 | 37.8 | 37.5 | 37.2 | 36 9 | 36.6 | 36.3 | 34 |
| .2 | 39.0 | 38.7 | 38.4 | 38.1 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | .2 |
| .4 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.8 | 36.5 | 36.2 | 35.9 | .4 |
| .6 | 38.5 | 38.2 | 37.9 | 37.6 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | .6 |
| .8 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.3 | 36.0 | 35.7 | 35.4 | .8 |
| 35 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.1 | 35 8 | 35.5 | 35.2 | 35 |
| .2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.9 | 35.6 | 35.3 | 35.0 | .2 |
| .4 | 37.6 | 37.3 | 37.0 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 35.8 | 34.7 | .4 |
| .6 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.4 | 35.1 | 34.5 | 34.5 | .6 |
| .8 | 37.1 | 36.8 | 36.5 | 36.3 | 36.0 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | .8 |
| 36 | 36.9 | 36.6 | 36.3 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34 6 | 34.3 | 34 0 | 36 |
| .2 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | .2 |
| .4 | 36.4 | 36.1 | 35.8 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | .4 |
| .6 | 36.2 | 35.9 | 35.6 | 35.3 | 35.0 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | .6 |
| .8 | 35.9 | 35.6 | 35.3 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | .8 |
| 37 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.8 | 37 |
| .2 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | .2 |
| .4 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | .4 |
| .6 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | .6 |
| .8 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | .8 |
| 38 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.1 | 32 8 | 32.5 | 32.2 | 31.9 | 31.6 | 38 |
| .2 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.8 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | .2 |
| .4 | 34.0 | 33.7 | 33.4 | 33.1 | 32.8 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | .4 |
| .6 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | .6 |
| .8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | .8 |
| 39 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 39 |
| .2 | 33.1 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.4 | 31.1 | 30.7 | 30.4 | 30 1 | .2 |
| .4 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.4 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | .4 |
| .6 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.9 | 30.6 | 30.2 | 29 9 | 29.6 | .6 |
| .8 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.9 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | .8 |
| 40 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.7 | 30 4 | 30.1 | 29.7 | 29.4 | 29.1 | 40 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.7 | 30.4 | 30.1 | 29.7 | 29.4 | 29.1 | 40 |
| .2 | 31.8 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | .2 |
| .4 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.2 | 29.9 | 29.6 | 29.2 | 28.9 | 28.6 | .4 |
| .6 | 31.3 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | .6 |
| .8 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.7 | 29.4 | 29.1 | 28.7 | 28.4 | 28.1 | .8 |
| 41 | 30.8 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 41 |
| .2 | 30.6 | 30.3 | 30.0 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.6 | .2 |
| .4 | 30.3 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | .4 |
| .6 | 30.1 | 29.8 | 29.5 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.1 | .6 |
| .8 | 29.8 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | .8 |
| 42 | 29.6 | 29.3 | 29.0 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.6 | 42 |
| .2 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | .2 |
| .4 | 29.1 | 28.8 | 28.5 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.1 | .4 |
| .6 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | .6 |
| .8 | 28.6 | 28.3 | 28.0 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.6 | .8 |
| 43 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 43 |
| .2 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | .2 |
| .4 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | .4 |
| .6 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | .6 |
| .8 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | .8 |
| 44 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 44 |
| .2 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.4 | 25.1 | 24.7 | 24.4 | 24.1 | 23.8 | .2 |
| .4 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | 23.9 | 23.6 | .4 |
| .6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.9 | 24.6 | 24.2 | 23.9 | 23.6 | 23.3 | .6 |
| .8 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | 23.4 | 23.1 | .8 |
| 45 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.4 | 24.1 | 23.7 | 23.4 | 23.1 | 22 8 | 45 |
| .2 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.1 | 23.8 | 23.4 | 23.1 | 22.8 | 22.5 | .2 |
| .4 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.9 | 23.6 | 23.2 | 22.9 | 22.6 | 22.2 | .4 |
| .6 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.6 | 23.3 | 22.9 | 22.6 | 22.3 | 22.0 | .6 |
| .8 | 24.8 | 24.5 | 24.2 | 23.9 | 23.6 | 23.4 | 23.1 | 22.7 | 22.4 | 22.1 | 21.7 | .8 |
| 46 | 24.5 | 24.2 | 23.9 | 23.6 | 23.3 | 23.1 | 22.8 | 22.4 | 22.1 | 21.8 | 21.4 | 46 |
| .2 | 24.2 | 23.9 | 23.6 | 23.3 | 23.0 | 22.8 | 22.5 | 22.1 | 21.8 | 21.5 | 21.1 | .2 |
| .4 | 24.0 | 23.7 | 23.4 | 23.1 | 22.8 | 22.5 | 22.2 | 21.9 | 21.6 | 21.2 | 20.9 | .4 |
| .6 | 23.7 | 23.4 | 23.1 | 22.8 | 22.5 | 22.3 | 22.0 | 21.6 | 21.3 | 21.0 | 20.6 | .6 |
| .8 | 23.5 | 23.2 | 22.9 | 22.6 | 22.3 | 22.0 | 21.7 | 21.4 | 21.1 | 20.7 | 20.4 | .8 |
| 47 | 23.2 | 22.9 | 22.6 | 22.3 | 22.0 | 21.7 | 21.4 | 21.1 | 20.8 | 20.4 | 20.1 | 47 |
| .2 | 22.9 | 22.6 | 22.3 | 22.0 | 21.7 | 21.4 | 21.1 | 20.8 | 20.5 | 20.1 | 19.8 | .2 |
| .4 | 22.7 | 22.4 | 22.1 | 21.8 | 21.5 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.6 | .4 |
| .6 | 22.4 | 22.1 | 21.8 | 21.5 | 21.2 | 20.9 | 20.6 | 20.3 | 20.0 | 19.6 | 19.3 | .6 |
| .8 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.6 | 20.3 | 20.0 | 19.7 | 19.4 | 19.1 | .8 |
| 48 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.3 | 20.0 | 19.7 | 19.4 | 19.1 | 18.8 | 48 |
| .2 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.0 | 19.7 | 19.4 | 19.1 | 18.8 | 18.5 | .2 |
| .4 | 21.4 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.2 | .4 |
| .6 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | .6 |
| .8 | 20.9 | 20.5 | 20.2 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | 18.4 | 18.1 | 17.7 | .8 |
| 49 | 20.6 | 20.2 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | 18.4 | 18.1 | 17.8 | 17.4 | 49 |
| .2 | 20.3 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | 18.4 | 18.1 | 17.8 | 17.5 | 17.1 | .2 |
| .4 | 20.0 | 19.7 | 19.4 | 19.1 | 18.8 | 18.5 | 18.1 | 17.8 | 17.5 | 17.2 | 16.9 | .4 |
| .6 | 19.8 | 19.4 | 19.1 | 18.8 | 18.5 | 18.2 | 17.9 | 17.6 | 17.3 | 17.0 | 16.6 | .6 |
| .8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.6 | 17.3 | 17.0 | 16.7 | 16.4 | .8 |
| 50 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.3 | 17.0 | 16.7 | 16.4 | 16.1 | 50 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.3 | 17.0 | 16.7 | 16.4 | 16.1 | 50 |
| .2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.7 | 17.4 | 17.0 | 16.7 | 16.4 | 16.1 | 15.8 | .2 |
| .4 | 18.7 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.8 | 16.4 | 16.1 | 15.8 | 15.5 | .4 |
| .6 | 18.4 | 18.1 | 17.8 | 17.5 | 17.2 | 16.9 | 16.5 | 16.2 | 15.9 | 15.6 | 15.3 | .6 |
| .8 | 18.2 | 17.8 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 15.9 | 15.6 | 15.3 | 15.0 | .8 |
| 51 | 17.9 | 17.5 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.6 | 15.3 | 15.0 | 14.7 | 51 |
| .2 | 17.6 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.3 | 15.0 | 14.7 | 14.4 | .2 |
| .4 | 17.3 | 16.9 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.1 | 14.7 | 14.4 | 14.1 | .4 |
| .6 | 17.1 | 16.7 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.8 | 14.5 | 14.2 | 13.9 | .6 |
| .8 | 16.8 | 16.4 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.2 | 13.9 | 13.6 | .8 |
| 52 | 16.5 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 13.9 | 13.6 | 13.3 | 52 |
| .2 | 16.2 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.6 | 13.3 | 13.0 | .2 |
| .4 | 15.9 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.7 | 13.3 | 13.0 | 12.7 | .4 |
| .6 | 15.6 | 15.3 | 15.0 | 14.7 | 14.4 | 14.1 | 13.7 | 13.4 | 13.1 | 12.8 | 12.5 | .6 |
| .8 | 15.3 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.4 | 13.1 | 12.8 | 12.5 | 12.2 | .8 |
| 53 | 15.0 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 12.5 | 12.2 | 11.9 | 53 |
| .2 | 14.7 | 14.4 | 14.1 | 13.8 | 13.5 | 13.2 | 12.8 | 12.5 | 12.2 | 11.9 | 11.6 | .2 |
| .4 | 14.4 | 14.1 | 13.8 | 13.5 | 13.2 | 12.9 | 12.5 | 12.2 | 11.9 | 11.6 | 11.3 | .4 |
| .6 | 14.2 | 13.9 | 13.6 | 13.3 | 13.0 | 12.7 | 12.3 | 12.0 | 11.7 | 11.4 | 11.1 | .6 |
| .8 | 13.9 | 13.6 | 13.3 | 13.0 | 12.7 | 12.4 | 12.0 | 11.7 | 11.4 | 11.1 | 10.8 | .8 |
| 54 | 13.6 | 13.3 | 13.0 | 12.7 | 12.4 | 12.1 | 11.7 | 11.4 | 11.1 | 10.8 | 10.5 | 54 |
| .2 | 13.3 | 13.0 | 12.7 | 12.4 | 12.1 | 11.8 | 11.4 | 11.1 | 10.8 | 10.5 | 10.2 | .2 |
| .4 | 13.0 | 12.7 | 12.4 | 12.1 | 11.8 | 11.5 | 11.1 | 10.8 | 10.5 | 10.2 | 9.9 | .4 |
| .6 | 12.8 | 12.5 | 12.2 | 11.8 | 11.5 | 11.2 | 10.9 | 10.6 | 10.2 | 9.9 | 9.6 | .6 |
| .8 | 12.5 | 12.2 | 11.9 | 11.5 | 11.2 | 10.9 | 10.6 | 10.3 | 9.9 | 9.6 | 9.3 | .8 |
| 55 | 12.2 | 11.9 | 11.6 | 11.2 | 10.9 | 10.6 | 10.3 | 10.0 | 9.6 | 9.3 | 9.0 | 55 |
| .2 | 11.9 | 11.6 | 11.3 | 10.9 | 10.6 | 10.3 | 10.0 | 9.7 | 9.3 | 9.0 | 8.7 | .2 |
| .4 | 11.6 | 11.3 | 11.0 | 10.6 | 10.3 | 10.0 | 9.7 | 9.4 | 9.0 | 8.7 | 8.4 | .4 |
| .6 | 11.3 | 11.0 | 10.7 | 10.4 | 10.1 | 9.7 | 9.4 | 9.1 | 8.8 | 8.5 | 8.1 | .6 |
| .8 | 11.0 | 10.7 | 10.4 | 10.1 | 9.8 | 9.4 | 9.1 | 8.8 | 8.5 | 8.2 | 7.8 | .8 |
| 56 | 10.7 | 10.4 | 10.1 | 9.8 | 9.5 | 9.1 | 8.8 | 8.5 | 8.2 | 7.9 | 7.5 | 56 |
| .2 | 10.4 | 10.1 | 9.8 | 9.5 | 9.2 | 8.8 | 8.5 | 8.2 | 7.9 | 7.6 | 7.2 | .2 |
| .4 | 10.1 | 9.8 | 9.5 | 9.2 | 8.9 | 8.5 | 8.2 | 7.9 | 7.6 | 7.3 | 6.9 | .4 |
| .6 | 9.9 | 9.6 | 9.3 | 9.0 | 8.6 | 8.3 | 7.9 | 7.6 | 7.3 | 7.0 | 6.7 | .6 |
| .8 | 9.6 | 9.3 | 9.0 | 8.7 | 8.3 | 8.0 | 7.6 | 7.3 | 7.0 | 6.7 | 6.4 | .8 |
| 57 | 9.3 | 9.0 | 8.7 | 8.4 | 8.0 | 7.7 | 7.3 | 7.0 | 6.7 | 6.4 | 6.1 | 57 |
| .2 | 9.0 | 8.7 | 8.4 | 8.1 | 7.7 | 7.4 | 7.0 | 6.7 | 6.4 | 6.1 | 5.8 | .2 |
| .4 | 8.7 | 8.4 | 8.1 | 7.8 | 7.4 | 7.1 | 6.7 | 6.4 | 6.1 | 5.8 | 5.5 | .4 |
| .6 | 8.4 | 8.1 | 7.8 | 7.5 | 7.2 | 6.8 | 6.5 | 6.1 | 5.8 | 5.5 | 5.2 | .6 |
| .8 | 8.1 | 7.8 | 7.5 | 7.2 | 6.9 | 6.5 | 6.2 | 5.8 | 5.5 | 5.2 | 4.9 | .8 |
| 58 | 7.8 | 7.5 | 7.2 | 6.9 | 6.6 | 6.2 | 5.9 | 5.5 | 5.2 | 4.9 | 4.6 | 58 |
| .2 | 7.5 | 7.2 | 6.9 | 6.6 | 6.3 | 5.9 | 5.6 | 5.2 | 4.9 | 4.6 | 4.3 | .2 |
| .4 | 7.2 | 6.9 | 6.6 | 6.3 | 6.0 | 5.6 | 5.3 | 4.9 | 4.6 | 4.3 | 4.0 | .4 |
| .6 | 6.9 | 6.6 | 6.3 | 5.9 | 5.7 | 5.3 | 5.0 | 4.7 | 4.3 | 4.0 | 3.7 | .6 |
| .8 | 6.6 | 6.3 | 6.0 | 5.6 | 5.4 | 5.0 | 4.7 | 4.4 | 4.0 | 3.7 | 3.4 | .8 |
| 59 | 6.3 | 6.0 | 5.7 | 5.3 | 5.1 | 4.8 | 4.4 | 4.1 | 3.7 | 3.4 | 3.1 | 59 |
| .2 | 6.0 | 5.7 | 5.4 | 5.0 | 4.8 | 4.4 | 4.1 | 3.8 | 3.4 | 3.1 | 2.8 | .2 |
| .4 | 5.7 | 5.4 | 5.1 | 4.7 | 4.5 | 4.1 | 3.8 | 3.5 | 3.1 | 2.8 | 2.5 | .4 |
| .6 | 5.4 | 5.1 | 4.8 | 4.4 | 4.1 | 3.8 | 3.5 | 3.2 | 2.8 | 2.5 | 2.1 | .6 |
| .8 | 5.1 | 4.8 | 4.5 | 4.1 | 3.8 | 3.5 | 3.2 | 2.9 | 2.5 | 2.2 | 1.8 | .8 |
| 60 | 4.8 | 4.5 | 4.2 | 3.8 | 3.5 | 3.2 | 2.9 | 2.6 | 2.2 | 1.9 | 1.5 | 60 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | |
| 60 | 4.8 | 4.5 | 4.2 | 3.8 | 3.5 | 3.2 | 2.9 | 2.6 | 2.2 | 1.9 | 1.5 | 60 |
| .2 | 4.5 | 4.2 | 3.9 | 3.5 | 3.2 | 2.9 | 2.6 | 2.3 | 1.9 | 1.6 | 1.2 | .2 |
| .4 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 2.6 | 2.3 | 2.0 | 1.6 | 1.3 | .9 | .4 |
| .6 | 3.9 | 3.6 | 3.3 | 2.9 | 2.6 | 2.3 | 2.0 | 1.7 | 1.3 | 1.0 | .6 | .6 |
| .8 | 3.6 | 3.3 | 3.0 | 2.6 | 2.3 | 2.0 | 1.7 | 1.4 | 1.0 | .7 | .3 | .8 |
| 61 | 3.3 | 3.0 | 2.7 | 2.3 | 2.0 | 1.7 | 1.4 | 1.1 | .7 | 4. | 0 | 61 |
| .2 | 3.0 | 2.7 | 2.4 | 2.0 | 1.7 | 1.4 | 1.1 | .8 | .4 | .1 | .3 | .2 |
| .4 | 2.7 | 2.4 | 2.1 | 1.7 | 1.4 | 1.1 | .8 | .5 | .1 | .2 | .6 | .4 |
| .6 | 2.4 | 2.1 | 1.8 | 1.4 | 1.1 | .8 | .4 | .1 | .3 | .6 | .9 | .6 |
| .8 | 2.1 | 1.8 | 1.5 | 1.1 | .8 | .5 | .1 | .2 | .6 | .9 | 1.2 | .8 |
| 62 | 1.8 | 1.5 | 1.2 | .8 | .5 | 2 | .2 | .5 | .9 | 1.2 | 1.5 | 62 |
| .2 | 1.5 | 1.2 | .9 | .5 | .2 | .1 | .5 | .8 | 1.2 | 1.5 | 1.8 | .2 |
| .4 | 1.2 | .9 | .6 | .2 | .1 | .4 | .8 | 1.1 | 1.5 | 1.8 | 2.1 | .4 |
| .6 | .8 | .5 | .2 | .2 | .5 | .8 | 1.1 | 1.5 | 1.8 | 2.2 | 2.5 | .6 |
| .8 | .5 | .2 | .1 | .5 | .8 | 1.1 | 1.4 | 1.8 | 2.1 | 2.5 | 2.8 | .8 |
| 63 | .2 | .1 | .4 | .8 | 1.1 | 1.4 | 1.7 | 2.1 | 2.4 | 2.8 | 3.1 | 63 |
| .2 | .1 | .4 | .7 | 1.1 | 1.4 | 1.7 | 2.0 | 2.4 | 2.7 | 3.1 | 3.4 | .2 |
| .4 | .4 | .7 | 1.0 | 1.4 | 1.7 | 2.1 | 2.4 | 2.7 | 3.0 | 3.4 | 3.7 | .4 |
| .6 | .8 | 1.1 | 1.4 | 1.8 | 2.1 | 2.4 | 2.7 | 3.1 | 3.4 | 3.8 | 4.1 | .6 |
| .8 | 1.1 | 1.4 | 1.7 | 2.1 | 2.4 | 2.8 | 3.1 | 3.4 | 3.7 | 4.1 | 4.4 | .8 |
| 64 | 1.4 | 1.7 | 2.0 | 2.4 | 2.7 | 3.1 | 3.4 | 3.7 | 4.0 | 4.4 | 4.7 | 64 |
| .2 | 1.7 | 2.0 | 2.3 | 2.7 | 3.0 | 3.4 | 3.7 | 4.0 | 4.3 | 4.7 | 5.0 | .2 |
| .4 | 2.0 | 2.3 | 2.6 | 3.0 | 3.3 | 3.7 | 4.1 | 4.4 | 4.7 | 5.1 | 5.4 | .4 |
| .6 | 2.4 | 2.7 | 3.0 | 3.4 | 3.7 | 4.1 | 4.4 | 4.7 | 5.0 | 5.4 | 5.7 | .6 |
| .8 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.4 | 4.8 | 5.1 | 5.4 | 5.8 | 6.1 | .8 |
| 65 | 3.0 | 3.3 | 3.6 | 4.0 | 4.3 | 4.7 | 5.1 | 5.4 | 5.7 | 6.1 | 6.4 | 65 |
| .2 | 3.3 | 3.6 | 3.9 | 4.3 | 4.6 | 5.0 | 5.4 | 5.7 | 6.0 | 6.4 | 6.7 | .2 |
| .4 | 3.6 | 4.0 | 4.3 | 4.7 | 5.0 | 5.4 | 5.7 | 6.1 | 6.4 | 6.8 | 7.1 | .4 |
| .6 | 4.0 | 4.3 | 4.6 | 5.0 | 5.3 | 5.7 | 6.1 | 6.4 | 6.7 | 7.1 | 7.4 | .6 |
| .8 | 4.3 | 4.7 | 5.0 | 5.4 | 5.7 | 6.1 | 6.4 | 6.8 | 7.1 | 7.5 | 7.8 | .8 |
| 66 | 4.6 | 5.0 | 5.3 | 5.7 | 6.0 | 6.4 | 6.7 | 7.1 | 7.4 | 7.8 | 8.1 | 66 |
| .2 | 5.0 | 5.3 | 5.7 | 6.0 | 6.3 | 6.7 | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | .2 |
| .4 | 5.3 | 5.7 | 6.0 | 6.4 | 6.7 | 7.1 | 7.4 | 7.8 | 8.1 | 8.5 | 8.8 | .4 |
| .6 | 5.7 | 6.0 | 6.4 | 6.7 | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | 8.8 | 9.1 | .6 |
| .8 | 6.0 | 6.4 | 6.7 | 7.1 | 7.4 | 7.8 | 8.1 | 8.5 | 8.8 | 9.2 | 9.5 | .8 |
| 67 | 6.4 | 6.7 | 7.1 | 7.4 | 7.7 | 8.1 | 8.4 | 8.8 | 9.1 | 9.5 | 9.8 | 67 |
| .2 | 6.7 | 7.0 | 7.4 | 7.7 | 8.0 | 8.4 | 8.7 | 9.1 | 9.4 | 9.8 | 10.1 | .2 |
| .4 | 7.1 | 7.4 | 7.8 | 8.1 | 8.4 | 8.8 | 9.1 | 9.5 | 9.8 | 10.2 | 10.5 | .4 |
| .6 | 7.4 | 7.7 | 8.1 | 8.4 | 8.7 | 9.1 | 9.4 | 9.8 | 10.1 | 10.5 | 10.8 | .6 |
| .8 | 7.8 | 8.1 | 8.5 | 8.8 | 9.1 | 9.5 | 9.8 | 10.2 | 10.5 | 10.9 | 11.2 | .8 |
| 68 | 8.1 | 8.4 | 8.8 | 9.1 | 9.4 | 9.8 | 10.1 | 10.5 | 10.8 | 11.2 | 11.5 | 68 |
| .2 | 8.5 | 8.8 | 9.1 | 9.4 | 9.8 | 10.2 | 10.5 | 10.9 | 11.2 | 11.6 | 11.9 | .2 |
| .4 | 8.8 | 9.1 | 9.5 | 9.8 | 10.1 | 10.5 | 10.8 | 11.2 | 11.5 | 11.9 | 12.2 | .4 |
| .6 | 9.2 | 9.5 | 9.8 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 11.9 | 12.3 | 12.6 | .6 |
| .8 | 9.5 | 9.8 | 10.2 | 10.5 | 10.8 | 11.2 | 11.5 | 11.9 | 12.2 | 12.6 | 12.9 | .8 |
| 69 | 9.9 | 10.2 | 10.5 | 10.8 | 11.2 | 11.6 | 11.9 | 12.3 | 12.6 | 13.0 | 13.3 | 69 |
| .2 | 10.3 | 10.6 | 10.9 | 11.2 | 11.6 | 12.0 | 12.3 | 12.7 | 13.0 | 13.4 | 13.7 | .2 |
| .4 | 10.6 | 10.9 | 11.2 | 11.5 | 11.9 | 12.3 | 12.6 | 13.0 | 13.3 | 13.7 | 14.0 | .4 |
| .6 | 11.0 | 11.3 | 11.6 | 11.9 | 12.3 | 12.7 | 13.0 | 13.4 | 13.7 | 14.1 | 14.4 | .6 |
| .8 | 11.3 | 11.6 | 11.9 | 12.2 | 12.6 | 13.0 | 13.3 | 13.7 | 14.0 | 14.4 | 14.7 | .8 |
| 70 | 11.7 | 12.0 | 12.3 | 12.6 | 13.0 | 13.4 | 13.7 | 14.1 | 14.4 | 14.8 | 15.1 | 70 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 11.7 | 12.0 | 12.3 | 12.6 | 13.0 | 13.4 | 13.7 | 14.1 | 14.4 | 14.8 | 15.1 | 70 |
| .2 | 12.1 | 12.4 | 12.7 | 13.0 | 13.4 | 13.8 | 14.1 | 14.5 | 14.8 | 15.2 | 15.5 | .2 |
| .4 | 12.4 | 12.7 | 13.0 | 13.4 | 13.7 | 14.1 | 14.5 | 14.8 | 15.2 | 15.6 | 15.9 | .4 |
| .6 | 12.8 | 13.1 | 13.4 | 13.7 | 14.1 | 14.5 | 14.8 | 15.2 | 15.5 | 15.9 | 16.2 | .6 |
| .8 | 13.1 | 13.4 | 13.7 | 14.1 | 14.4 | 14.8 | 15.2 | 15.5 | 15.9 | 16.3 | 16.6 | .8 |
| 71 | 13.5 | 13.8 | 14.1 | 14.5 | 14.8 | 15.2 | 15.6 | 15.9 | 16.3 | 16.7 | 17.0 | 71 |
| .2 | 13.9 | 14.2 | 14.5 | 14.9 | 15.2 | 15.6 | 16.0 | 16.3 | 16.7 | 17.1 | 17.4 | .2 |
| .4 | 14.3 | 14.6 | 14.9 | 15.3 | 15.6 | 16.0 | 16.4 | 16.7 | 17.1 | 17.5 | 17.8 | .4 |
| .6 | 14.6 | 14.9 | 15.2 | 15.6 | 15.9 | 16.3 | 16.7 | 17.0 | 17.4 | 17.8 | 18.1 | .6 |
| .8 | 15.0 | 15.3 | 15.6 | 16.0 | 16.3 | 16.7 | 17.1 | 17.4 | 17.8 | 18.2 | 18.5 | .8 |
| 72 | 15.4 | 15.7 | 16.0 | 16.4 | 16.7 | 17.1 | 17.5 | 17.8 | 18.2 | 18.6 | 18.9 | 72 |
| .2 | 15.8 | 16.1 | 16.4 | 16.8 | 17.1 | 17.5 | 17.9 | 18.2 | 18.6 | 19.0 | 19.3 | .2 |
| .4 | 16.2 | 16.5 | 16.8 | 17.2 | 17.5 | 17.9 | 18.3 | 18.6 | 19.0 | 19.4 | 19.7 | .4 |
| .6 | 16.5 | 16.8 | 17.2 | 17.5 | 17.9 | 18.3 | 18.6 | 19.0 | 19.4 | 19.7 | 20.1 | .6 |
| .8 | 16.9 | 17.2 | 17.6 | 17.9 | 18.3 | 18.7 | 19.0 | 19.4 | 19.8 | 20.1 | 20.5 | .8 |
| 73 | 17.3 | 17.6 | 18.0 | 18.3 | 18.7 | 19.1 | 19.4 | 19.8 | 20.2 | 20.5 | 20.9 | 73 |
| .2 | 17.7 | 18.0 | 18.4 | 18.7 | 19.1 | 19.5 | 19.8 | 20.2 | 20.6 | 20.9 | 21.3 | .2 |
| .4 | 18.1 | 18.4 | 18.8 | 19.1 | 19.5 | 19.9 | 20.2 | 20.6 | 21.0 | 21.3 | 21.7 | .4 |
| .6 | 18.5 | 18.8 | 19.2 | 19.5 | 19.9 | 20.3 | 20.6 | 21.0 | 21.3 | 21.6 | 22.0 | .6 |
| .8 | 18.9 | 19.2 | 19.6 | 19.9 | 20.3 | 20.7 | 21.0 | 21.4 | 21.7 | 22.0 | 22.4 | .8 |
| 74 | 19.3 | 19.6 | 20.0 | 20.3 | 20.7 | 21.1 | 21.4 | 21.8 | 22.1 | 22.4 | 22.8 | 74 |
| .2 | 19.7 | 20.0 | 20.4 | 20.7 | 21.1 | 21.5 | 21.8 | 22.2 | 22.5 | 22.8 | 23.2 | .2 |
| .4 | 20.1 | 20.4 | 20.8 | 21.1 | 21.5 | 21.9 | 22.2 | 22.6 | 22.9 | 23.2 | 23.6 | .4 |
| .6 | 20.5 | 20.8 | 21.2 | 21.5 | 21.9 | 22.3 | 22.6 | 23.0 | 23.3 | 23.7 | 24.1 | .6 |
| .8 | 20.9 | 21.2 | 21.6 | 21.9 | 22.3 | 22.7 | 23.0 | 23.4 | 23.7 | 24.1 | 24.5 | .8 |
| 75 | 21.3 | 21.6 | 22.0 | 22.3 | 22.7 | 23.1 | 23.4 | 23.8 | 24.1 | 24.5 | 24.9 | 75 |
| .2 | 21.7 | 22.0 | 22.4 | 22.7 | 23.1 | 23.5 | 23.8 | 24.2 | 24.5 | 24.9 | 25.3 | .2 |
| .4 | 22.1 | 22.4 | 22.8 | 23.1 | 23.5 | 23.9 | 24.2 | 24.6 | 25.0 | 25.4 | 25.7 | .4 |
| .6 | 22.5 | 22.9 | 23.3 | 23.6 | 24.0 | 24.4 | 24.7 | 25.1 | 25.4 | 25.8 | 26.2 | .6 |
| .8 | 22.9 | 23.3 | 23.7 | 24.0 | 24.4 | 24.8 | 25.1 | 25.5 | 25.9 | 26.3 | 26.6 | .8 |
| 76 | 23.3 | 23.7 | 24.1 | 24.4 | 24.8 | 25.2 | 25.5 | 25.9 | 26.3 | 26.7 | 27.0 | 76 |
| .2 | 23.7 | 24.1 | 24.5 | 24.8 | 25.2 | 25.6 | 25.9 | 26.3 | 26.7 | 27.1 | 27.4 | .2 |
| .4 | 24.2 | 24.6 | 25.0 | 25.3 | 25.7 | 26.1 | 26.4 | 26.8 | 27.2 | 27.6 | 27.9 | .4 |
| .6 | 24.6 | 25.0 | 25.4 | 25.7 | 26.1 | 26.5 | 26.8 | 27.2 | 27.6 | 28.0 | 28.3 | .6 |
| .8 | 25.1 | 25.5 | 25.9 | 26.2 | 26.6 | 27.0 | 27.3 | 27.7 | 28.1 | 28.5 | 28.8 | .8 |
| 77 | 25.5 | 25.9 | 26.3 | 26.6 | 27.0 | 27.4 | 27.7 | 28.1 | 28.5 | 28.9 | 29.2 | 77 |
| .2 | 26.0 | 26.4 | 26.8 | 27.1 | 27.5 | 27.9 | 28.2 | 28.6 | 29.0 | 29.4 | 29.7 | .2 |
| .4 | 26.4 | 26.8 | 27.2 | 27.5 | 27.9 | 28.3 | 28.6 | 29.0 | 29.4 | 29.8 | 30.1 | .4 |
| .6 | 26.9 | 27.3 | 27.7 | 28.0 | 28.4 | 28.8 | 29.1 | 29.5 | 29.9 | 30.3 | 30.6 | .6 |
| .8 | 27.3 | 27.7 | 28.1 | 28.4 | 28.8 | 29.2 | 29.5 | 29.9 | 30.3 | 30.7 | 31.0 | .8 |
| 78 | 27.8 | 28.2 | 28.6 | 28.9 | 29.3 | 29.7 | 30.0 | 30.4 | 30.8 | 31.2 | 31.5 | 78 |
| .2 | 28.3 | 28.7 | 29.1 | 29.4 | 29.8 | 30.2 | 30.5 | 30.9 | 31.3 | 31.7 | 32.0 | .2 |
| .4 | 28.8 | 29.2 | 29.5 | 29.9 | 30.3 | 30.6 | 31.0 | 31.4 | 31.8 | 32.2 | 32.5 | .4 |
| .6 | 29.2 | 29.6 | 30.0 | 30.3 | 30.7 | 31.1 | 31.4 | 31.8 | 32.2 | 32.6 | 32.9 | .6 |
| .8 | 29.7 | 30.1 | 30.4 | 30.8 | 31.2 | 31.5 | 31.9 | 32.3 | 32.7 | 33.1 | 33.4 | .8 |
| 79 | 30.2 | 30.6 | 30.9 | 31.3 | 31.7 | 32.0 | 32.4 | 32.8 | 33.2 | 33.6 | 33.9 | 79 |
| .2 | 30.7 | 31.1 | 31.4 | 31.8 | 32.2 | 32.5 | 32.9 | 33.3 | 33.7 | 34.1 | 34.4 | .2 |
| .4 | 31.2 | 31.6 | 31.9 | 32.3 | 32.7 | 33.0 | 33.4 | 33.8 | 34.2 | 34.6 | 34.9 | .4 |
| .6 | 31.7 | 32.1 | 32.4 | 32.8 | 33.2 | 33.5 | 33.9 | 34.4 | 34.8 | 35.2 | 35.5 | .6 |
| .8 | 32.2 | 32.6 | 32.9 | 33.3 | 33.7 | 34.0 | 34.4 | 34.9 | 35.3 | 35.7 | 36.0 | .8 |
| 80 | 32.7 | 33.1 | 33 4 | 33.8 | 34.2 | 34.5 | 34.9 | 35.4 | 35.8 | 36.2 | 36.5 | 80 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | |
| 80 | 32.7 | 33.1 | 33.4 | 33.8 | 34.2 | 34.5 | 34.9 | 35.4 | 35.8 | 36.2 | 36.5 | 80 |
| .2 | 33.2 | 33.6 | 33.9 | 34.3 | 34.7 | 35.0 | 35.4 | 35.9 | 36.3 | 36.7 | 37.0 | .2 |
| .4 | 33.7 | 34.1 | 34.5 | 34.9 | 35.2 | 35.6 | 36.0 | 36.4 | 36.8 | 37.2 | 37.5 | .4 |
| .6 | 34.2 | 34.7 | 35.0 | 35.4 | 35.8 | 36.1 | 36.5 | 37.0 | 37.4 | 37.7 | 38.1 | .6 |
| .8 | 34.8 | 35.2 | 35.6 | 36.0 | 36.3 | 36.7 | 37.1 | 37.5 | 37.9 | 38.2 | 38.6 | .8 |
| 81 | 35.3 | 35.7 | 36.1 | 36.5 | 36.8 | 37.2 | 37.6 | 38.0 | 38.4 | 38.7 | 39.1 | 81 |
| .2 | 35.9 | 36.3 | 36.6 | 37.0 | 37.4 | 37.7 | 38.1 | 38.5 | 38.9 | 39.3 | 39.7 | .2 |
| .4 | 36.4 | 36.8 | 37.2 | 37.6 | 37.9 | 38.3 | 38.7 | 39.1 | 39.5 | 39.8 | 40.2 | .4 |
| .6 | 37.0 | 37.4 | 37.7 | 38.1 | 38.5 | 38.8 | 39.2 | 39.6 | 40.0 | 40.4 | 40.8 | .6 |
| .8 | 37.5 | 37.9 | 38.3 | 38.7 | 39.0 | 39.4 | 39.8 | 40.2 | 40.6 | 40.9 | 41.3 | .8 |
| 82 | 38.1 | 38.5 | 38.8 | 39.2 | 39 6 | 39.9 | 40.3 | 40.7 | 41.1 | 41.5 | 41.9 | 82 |
| .2 | 38.7 | 39.1 | 39.4 | 39.8 | 40.2 | 40.5 | 40.9 | 41.3 | 41.7 | 42.1 | 42.5 | .2 |
| .4 | 39.3 | 39.7 | 40.0 | 40.4 | 40.8 | 41.1 | 41.5 | 41.9 | 42.3 | 42.7 | 43.1 | .4 |
| .6 | 39.8 | 40.2 | 40.5 | 40.9 | 41.3 | 41.6 | 42.0 | 42.4 | 42.8 | 43.3 | 43.7 | .6 |
| .8 | 40.4 | 40.8 | 41.1 | 41.5 | 41.9 | 42.2 | 42.6 | 43.0 | 43.4 | 43.9 | 44.3 | .8 |
| 83 | 41.0 | 41.4 | 41.7 | 42.1 | 42.5 | 42.8 | 43.2 | 43.6 | 44.0 | 44.5 | 44.9 | 83 |
| .2 | 41.6 | 42.0 | 42.4 | 42.7 | 43.1 | 43.5 | 43.9 | 44.3 | 44.7 | 45.1 | 45.5 | .2 |
| .4 | 42.3 | 42.7 | 43.0 | 43.4 | 43.8 | 44.1 | 44.5 | 44.9 | 45.3 | 45.8 | 46.2 | .4 |
| .6 | 42.9 | 43.3 | 43.7 | 44.0 | 44.4 | 44.8 | 45.2 | 45.6 | 46.0 | 46.4 | 46.8 | .6 |
| .8 | 43.6 | 44.0 | 44.3 | 44.7 | 45.1 | 45.4 | 45.8 | 46.2 | 46.6 | 47.1 | 47.5 | .8 |
| 84 | 44.2 | 44.6 | 45.0 | 45.3 | 45.7 | 46.1 | 46.5 | 46.9 | 47 3 | 47.7 | 48.1 | 84 |
| .2 | 44.9 | 45.3 | 45.7 | 46 0 | 46.4 | 46.8 | 47.2 | 47.6 | 48.0 | 48.4 | 48.8 | .2 |
| .4 | 45.6 | 46.0 | 46 4 | 46.7 | 47.1 | 47.5 | 47.9 | 48.3 | 48.7 | 49.1 | 49.5 | .4 |
| .6 | 46.3 | 46.7 | 47.0 | 47.4 | 47.8 | 48.2 | 48 6 | 49.1 | 49.5 | 49.9 | 50.3 | .6 |
| .8 | 47.0 | 47.4 | 47.7 | 48.1 | 48.5 | 48.9 | 49.3 | 49.8 | 50.2 | 50.6 | 51.0 | .8 |
| 85 | 47.7 | 48.1 | 48.4 | 48.8 | 49.2 | 49.6 | 50.0 | 50.5 | 50.9 | 51 3 | 51.7 | 85 |
| .2 | 48.5 | 48.9 | 49.2 | 49.6 | 50.0 | 50.4 | 50.8 | 51.3 | 51.7 | 52.0 | 52.4 | .2 |
| .4 | 49.3 | 49.7 | 50.0 | 50.4 | 50.8 | 51.2 | 51.6 | 52.0 | 52°.4 | 52.8 | 53.2 | .4 |
| .6 | 50.1 | 50.4 | 50.8 | 51.2 | 51.6 | 52.0 | 52.3 | 52.8 | 53.2 | 53.5 | 53.9 | .6 |
| .8 | 50.9 | 51.2 | 51.6 | 52.0 | 52.4 | 52.8 | 53.1 | 53.5 | 53.9 | 54.3 | 54.7 | .8 |
| 86 | 51.7 | 52.0 | 52 4 | 52.8 | 53 2 | 53.6 | 53.9 | 54.3 | 54.7 | 55.0 | 55.4 | 86 |
| .2 | 52.5 | 52.8 | 53.2 | 53.6 | 54.0 | 54.4 | 54.7 | 55.1 | 55.5 | 55.8 | 56.2 | .2 |
| .4 | 53.3 | 53.7 | 54.1 | 54.5 | 54.8 | 55.2 | 55.5 | 55.9 | 56.3 | 56.6 | 57.0 | .4 |
| .6 | 54.2 | 54.5 | 54.9 | 55.3 | 55.7 | 56.0 | 56.4 | 56.7 | 57.0 | 57.4 | 57.7 | .6 |
| .8 | 55.0 | 55.4 | 55.8 | 56.2 | 56.5 | 56.8 | 57.2 | 57.5 | 57.8 | 58.2 | 58.5 | .8 |
| 87 | 55.8 | 56.2 | 56.6 | 57.0 | 57.3 | 57.6 | 58.0 | 58.3 | 58.6 | 59.0 | 59.3 | 87 |
| .2 | 56.7 | 57.1 | 57.4 | 57.8 | 58.1 | 58.4 | 58.8 | 59.1 | 59.4 | 59.8 | 60.1 | .2 |
| .4 | 57.6 | 57.9 | 58.3 | 58.6 | 58.9 | 59.2 | 59.6 | 59.9 | 60.2 | 60.6 | 60.9 | .4 |
| .6 | 58.4 | 58.8 | 59.1 | 59.5 | 59.8 | 60.1 | 60.4 | 60.7 | 61.0 | 61.3 | 61.6 | .6 |
| .8 | 59.3 | 59.6 | 60.0 | 60.3 | 60.6 | 60.9 | 61.2 | 61.5 | 61.8 | 62.1 | 62.4 | .8 |
| 88 | 60.2 | 60.5 | 60.8 | 61 1 | 61.4 | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.2 | 88 |
| .2 | 61.1 | 61.4 | 61.6 | 61.9 | 62.2 | 62.5 | 62.8 | 63.1 | 63.4 | 63.7 | 64.0 | .2 |
| .4 | 61.9 | 62.2 | 62.5 | 62.8 | 63.0 | 63.3 | 63.6 | 63.9 | 64.2 | 64,4 | 64,7 | .4 |
| .6 | 62.8 | 63.1 | 63.3 | 63.6 | 63.9 | 64.2 | 64.4 | 64.7 | 64.9 | 65.2 | 65.5 | .6 |
| .8 | 63.6 | 63.9 | 64.2 | 64.5 | 64.7 | 65.0 | 65.2 | 65.5 | 65.7 | 65,9 | 66.2 | .8 |
| 89 | 64.5 | 64.8 | 65.0 | 65.3 | 65.5 | 65.8 | 66.0 | 66 3 | 66.5 | 66.7 | 67.0 | 89 |
| .2 | 65.3 | 65.6 | 65.8 | 66.1 | 66.3 | 66.6 | 66.8 | 67.1 | 67.3 | 67.5 | 67.7 | .2 |
| .4 | 66.2 | 66.4 | 66.6 | 66.9 | 67.1 | 67.4 | 67.6 | 67.8 | 68.0 | 68.2 | 68.5 | .4 |
| .6 | 67.0 | 67.3 | 67.5 | 67.7 | 67.9 | 68.1 | 68.3 | 68.6 | 68.8 | 69.0 | 69.2 | .6 |
| .8 | 67.9 | 68.1 | 68.3 | 68.5 | 68.7 | 68.9 | 69.1 | 69,3 | 69.5 | 69.7 | 70.0 | .8 |
| 90 | 68.7 | 68.9 | 69.1 | 69.3 | 69.5 | 69.7 | 69.9 | 70.1 | 70,3 | 70.5 | 70.7 | 90 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 68.7 | 68.9 | 69.1 | 69.3 | 69.5 | 69.7 | 69.9 | 70.1 | 70.3 | 70.5 | 70.7 | 90 |
| .2 | 69.5 | 69.7 | 69.9 | 70.1 | 70.3 | 70.5 | 70.6 | 70.8 | 71.0 | 71.2 | 71.4 | .2 |
| .4 | 70.3 | 70.5 | 70.7 | 70.9 | 71.0 | 71.2 | 71.4 | 71.6 | 71.8 | 71.9 | 72.1 | .4 |
| .6 | 71.1 | 71.3 | 71.4 | 71.6 | 71.8 | 72.0 | 72.1 | 72.3 | 72.5 | 72.7 | 72.9 | .6 |
| .8 | 71.9 | 72.1 | 72.2 | 72.4 | 72.5 | 72.7 | 72.9 | 73.1 | 73.3 | 73.4 | 73.6 | .8 |
| 91 | 72.7 | 72.9 | 73.0 | 73.2 | 73.3 | 73.5 | 73.6 | 73.8 | 74.0 | 74.1 | 74.3 | 91 |
| .2 | 73.4 | 73.6 | 73.7 | 73.9 | 74.0 | 74.2 | 74.3 | 74.5 | 74.7 | 74.8 | 75.0 | .2 |
| .4 | 74.2 | 74.3 | 74.5 | 74.6 | 74.7 | 74.9 | 75.0 | 75.2 | 75.4 | 75.5 | 75.7 | .4 |
| .6 | 74.9 | 75.1 | 75.2 | 75.4 | 75.5 | 75.6 | 75.8 | 75.9 | 76.0 | 76.2 | 76.3 | .6 |
| .8 | 75.7 | 75.8 | 76.0 | 76.1 | 76.2 | 76.3 | 76.5 | 76.6 | 76.7 | 76.9 | 77.0 | .8 |
| 92 | 76.4 | 76.5 | 76.7 | 76.8 | 76.9 | 77.0 | 77.2 | 77.3 | 77.4 | 77.6 | 77.7 | 92 |
| .2 | 77.1 | 77.2 | 77.4 | 77.5 | 77.6 | 77.7 | 77.9 | 78.0 | 78.1 | 78.3 | 78.4 | .2 |
| .4 | 77.8 | 77.9 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 78.6 | 78.8 | 78.9 | 79.0 | .4 |
| .6 | 78.6 | 78.7 | 78.8 | 78.8 | 78.9 | 79.0 | 79.2 | 79.3 | 79.4 | 79.6 | 79.7 | .6 |
| .8 | 79.3 | 79.4 | 79.5 | 79.5 | 79.6 | 79.7 | 79.8 | 79.9 | 80.1 | 80.2 | 80.3 | .8 |
| 93 | 80.0 | 80.1 | 80.2 | 80.2 | 80.3 | 80.4 | 80.5 | 80.6 | 80.8 | 80.9 | 81.0 | 93 |
| .2 | 80.7 | 80.8 | 80.8 | 80.9 | 81.0 | 81.1 | 81.1 | 81.2 | 81.4 | 81.5 | 81.6 | .2 |
| .4 | 81.3 | 81.4 | 81.5 | 81.5 | 81.6 | 81.7 | 81.8 | 81.9 | 82.0 | 82.1 | 82.2 | .4 |
| .6 | 82.0 | 82.1 | 82.1 | 82.2 | 82.3 | 82.4 | 82.4 | 82.5 | 82.7 | 82.8 | 82.9 | .6 |
| .8 | 82.6 | 82.7 | 82.8 | 82.8 | 82.9 | 83.0 | 83.1 | 83.2 | 83.3 | 83.4 | 83.5 | .8 |
| 94 | 83.3 | 83.4 | 83.4 | 83.5 | 83.6 | 83.7 | 83.7 | 83.8 | 83.9 | 84.0 | 84.1 | 94 |
| .2 | 83.9 | 84.0 | 84.0 | 84.1 | 84.2 | 84.3 | 84.3 | 84.4 | 84.5 | 84.6 | 84.7 | .2 |
| .4 | 84.6 | 84.6 | 84.7 | 84.7 | 84.8 | 84.9 | 84.9 | 85.0 | 85.1 | 85.2 | 85.3 | .4 |
| .6 | 85.2 | 85.3 | 85.3 | 85.4 | 85.5 | 85.5 | 85.6 | 85.7 | 85.7 | 85.8 | 85.9 | .6 |
| .8 | 85.9 | 85.9 | 86.0 | 86.0 | 86.1 | 86.1 | 86.2 | 86.3 | 86.3 | 86.4 | 86.5 | .8 |
| 95 | 86.5 | 86.5 | 86.6 | 86.6 | 86.7 | 86.7 | 86.8 | 86.9 | 86.9 | 87.0 | 87.1 | 95 |
| .2 | 87.1 | 87.1 | 87.2 | 87.2 | 87.3 | 87.3 | 87.4 | 87.5 | 87.5 | 87.6 | 87.7 | .2 |
| .4 | 87.7 | 87.7 | 87.8 | 87.8 | 87.9 | 87.9 | 88.0 | 88.0 | 88.1 | 88.1 | 88.2 | .4 |
| .6 | 88.2 | 88.3 | 88.3 | 88.3 | 88.4 | 88.4 | 88.5 | 88.6 | 88.6 | 88.7 | 88.8 | .6 |
| .8 | 88.8 | 88.9 | 88.9 | 88.9 | 89.0 | 89.0 | 89.1 | 89.1 | 89.2 | 89.2 | 89.3 | .8 |
| 96 | 89.4 | 89.5 | 89.5 | 89.5 | 89.6 | 89.6 | 89.7 | 89.7 | 89.8 | 89.8 | 89.9 | 96 |
| .2 | 90.0 | 90.1 | 90.1 | 90.1 | 90.1 | 90.2 | 90.2 | 90.3 | 90.3 | 90.4 | 90.4 | .2 |
| .4 | 90.5 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7 | 90.8 | 90.8 | 90.9 | 90.9 | 91.0 | .4 |
| .6 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.3 | 91.3 | 91.4 | 91.4 | 91.5 | 91.5 | .6 |
| .8 | 91.6 | 91.7 | 91.7 | 91.7 | 91.8 | 91.8 | 91.9 | 91.9 | 92.0 | 92.0 | 92.1 | .8 |
| 97 | 92.2 | 92.3 | 92.3 | 92.3 | 92 3 | 92.4 | 92.4 | 92.5 | 92.5 | 92.6 | 92.6 | 97 |
| .2 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.9 | 92.9 | 93.0 | 93.0 | 93.1 | 93.1 | .2 |
| .4 | 93.3 | 93.3 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.5 | 93.5 | 93.6 | 93.6 | .4 |
| .6 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 94.0 | 94.0 | 94.1 | 94.1 | 94.2 | 94.2 | .6 |
| .8 | 94.4 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6 | 94.6 | 94.7 | 94.7 | .8 |
| 98 | 94.9 | 94.9 | 94.9 | 95.0 | 95.0 | 95.0 | 95.0 | 95.1 | 95.1 | 95.2 | 95.2 | 98 |
| .2 | 95.4 | 95.4 | 95.4 | 95.5 | 95.5 | 95.5 | 95.5 | 95.6 | 95.6 | 95.7 | 95.7 | .2 |
| .4 | 95.9 | 95.9 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.1 | 96.1 | 96.2 | 96.2 | .4 |
| .6 | 96.4 | 96.4 | 96.4 | 96.4 | 96,5 | 96.5 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | .6 |
| .8 | 96.9 | 96.9 | 96.9 | 96,9 | 97,0 | 97.0 | 97.0 | 97.0 | 97.1 | 97.1 | 97.1 | .8 |
| 99 | 97.4 | 97.4 | 97.4 | 97.4 | 97.5 | 97,5 | 97,5 | 97.5 | 97.6 | 97.6 | 97.6 | 99 |
| .2 | 97.9 | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.1 | 98.1 | 98.1 | .2 |
| .4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | .4 |
| .6 | 98.8 | 98.8 | 98.8 | 98.8 | 98.9 | 98,9 | 98.9 | 98,9 | 99.0 | 99.0 | 99.0 | .6 |
| .8 | 99.3 | 99.3 | 99.3 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99,4 | 99.5 | 99.5 | .8 |
| 100 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 | 100.0 | 100 |
| INDICATION. | 40° | 41° | 42° | 43° | 44° | 45° | 46° | 47° | 48° | 49° | 50° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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# SIKES'S

## TABLE

OF THE

## CONCENTRATED STRENGTH

OF

# SPIRITS,

*(Continued,)*

## TEMPERATURE

50° to 60°.

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 0 | 69.3 | 69.0 | 68.8 | 68.6 | 68.4 | 68.1 | 67.9 | 67.7 | 67.5 | 67.2 | 67.0 | 0 |
| .2 | 69.1 | 68.8 | 68.6 | 68.4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.3 | 67.0 | 66.8 | .2 |
| .4 | 69.0 | 68.7 | 68.5 | 68.3 | 68.1 | 67.8 | 67.6 | 67.4 | 67.1 | 66.8 | 66.6 | .4 |
| .6 | 68.8 | 68.5 | 68.3 | 68.1 | 67.9 | 67.6 | 67.4 | 67.2 | 67.0 | 66.7 | 66.5 | .6 |
| .8 | 68.7 | 68.4 | 68.2 | 68.0 | 67.8 | 67.5 | 67.3 | 67.1 | 66.8 | 66.5 | 66.3 | .8 |
| 1 | 68.5 | 68.2 | 68.0 | 67.8 | 67.6 | 67.3 | 67.1 | 66.9 | 66.6 | 66.3 | 66.1 | 1 |
| .2 | 68.3 | 68.0 | 67.8 | 67.6 | 67.4 | 67.1 | 66.9 | 66.7 | 66.4 | 66.1 | 65.9 | .2 |
| .4 | 68.2 | 67.9 | 67.7 | 67.5 | 67.2 | 67.0 | 66.8 | 66.6 | 66.3 | 66.0 | 65.8 | .4 |
| .6 | 68.0 | 67.7 | 67.5 | 67.3 | 67.1 | 66.8 | 66.6 | 66.4 | 66.1 | 65.8 | 65.6 | .6 |
| .8 | 67.9 | 67.6 | 67.4 | 67.2 | 66.9 | 66.7 | 66.5 | 66.3 | 66.0 | 65.7 | 65.5 | .8 |
| 2 | 67.7 | 67.4 | 67.2 | 67.0 | 66.7 | 66.5 | 66.3 | 66.1 | 65.8 | 65.5 | 65.3 | 2 |
| .2 | 67.5 | 67.2 | 67.0 | 66.8 | 66.5 | 66.3 | 66.1 | 65.9 | 65.6 | 65.3 | 65.1 | .2 |
| .4 | 67.3 | 67.1 | 66.9 | 66.7 | 66.4 | 66.1 | 65.9 | 65.7 | 65.5 | 65.2 | 65.0 | .4 |
| .6 | 67.2 | 66.9 | 66.7 | 66.5 | 66.2 | 66.0 | 65.8 | 65.6 | 65.3 | 65.0 | 64.8 | .6 |
| .8 | 67.0 | 66.8 | 66.6 | 66.4 | 66.1 | 65.8 | 65.6 | 65.4 | 65.2 | 64.9 | 64.7 | .8 |
| 3 | 66.8 | 66.6 | 66.4 | 66.2 | 65.9 | 65.6 | 65.4 | 65.2 | 65.0 | 64.7 | 64.5 | 3 |
| .2 | 66.6 | 66.4 | 66.2 | 66.0 | 65.7 | 65.4 | 65.2 | 65.0 | 64.8 | 64.5 | 64.3 | .2 |
| .4 | 66.5 | 66.2 | 66.0 | 65.8 | 65.6 | 65.3 | 65.0 | 64.9 | 64.6 | 64.3 | 64.1 | .4 |
| .6 | 66.3 | 66.1 | 65.9 | 65.7 | 65.4 | 65.1 | 64.9 | 64.7 | 64.5 | 64.2 | 64.0 | .6 |
| .8 | 66.2 | 65.9 | 65.7 | 65.5 | 65.3 | 65.0 | 64.7 | 64.6 | 64.3 | 64.0 | 63.8 | .8 |
| 4 | 66.0 | 65.7 | 65.5 | 65.3 | 65.1 | 64.8 | 64.5 | 64.4 | 64.1 | 63.8 | 63.6 | 4 |
| .2 | 65.8 | 65.5 | 65.3 | 65.1 | 64.9 | 64.6 | 64.3 | 64.2 | 63.9 | 63.6 | 63.4 | .2 |
| .4 | 65.7 | 65.4 | 65.1 | 64.9 | 64.7 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.2 | .4 |
| .6 | 65.5 | 65.2 | 65.0 | 64.8 | 64.6 | 64.3 | 64.0 | 63.9 | 63.6 | 63.3 | 63.1 | .6 |
| .8 | 65.4 | 65.1 | 64.8 | 64.6 | 64.4 | 64.1 | 63.9 | 63.7 | 63.4 | 63.2 | 62.9 | .8 |
| 5 | 65.2 | 64.9 | 64.6 | 64.4 | 64.2 | 63.9 | 63.7 | 63.5 | 63.2 | 63.0 | 62.7 | 5 |
| .2 | 65.0 | 64.7 | 64.4 | 64.2 | 64.0 | 63.7 | 63.5 | 63.3 | 63.0 | 62.8 | 62.5 | .2 |
| .4 | 64.8 | 64.5 | 64.3 | 64.1 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | 62.6 | 62.3 | .4 |
| .6 | 64.7 | 64.4 | 64.1 | 63.9 | 63.7 | 63.4 | 63.2 | 63.0 | 62.7 | 62.5 | 62.2 | .6 |
| .8 | 64.5 | 64.2 | 64.0 | 63.8 | 63.5 | 63.3 | 63.0 | 62.8 | 62.6 | 62.3 | 62.0 | .8 |
| 6 | 64.3 | 64.0 | 63.8 | 63.6 | 63.3 | 63.1 | 62.8 | 62.6 | 62.4 | 62.1 | 61.8 | 6 |
| .2 | 64.1 | 63.8 | 63.6 | 63.4 | 63.1 | 62.9 | 62.6 | 62.4 | 62.2 | 61.9 | 61.6 | .2 |
| .4 | 63.9 | 63.7 | 63.4 | 63.2 | 63.0 | 62.7 | 62.4 | 62.2 | 62.0 | 61.7 | 61.4 | .4 |
| .6 | 63.8 | 63.5 | 63.3 | 63.1 | 62.8 | 62.6 | 62.3 | 62.1 | 61.9 | 61.6 | 61.3 | .6 |
| .8 | 63.6 | 63.4 | 63.1 | 62.9 | 62.7 | 62.4 | 62.1 | 61.9 | 61.7 | 61.4 | 61.1 | .8 |
| 7 | 63.4 | 63.2 | 62.9 | 62.7 | 62.5 | 62.2 | 61.9 | 61.7 | 61.5 | 61.2 | 60.9 | 7 |
| .2 | 63.2 | 63.0 | 62.7 | 62.5 | 62.3 | 62.0 | 61.7 | 61.5 | 61.3 | 61.0 | 60.7 | .2 |
| .4 | 63.0 | 62.8 | 62.5 | 62.3 | 62.1 | 61.8 | 61.5 | 61.3 | 61.1 | 60.8 | 60.5 | .4 |
| .6 | 62.9 | 62.7 | 62.4 | 62.2 | 62.0 | 61.7 | 61.4 | 61.2 | 61.0 | 60.7 | 60.4 | .6 |
| .8 | 62.7 | 62.5 | 62.2 | 62.0 | 61.8 | 61.5 | 61.2 | 61.0 | 60.8 | 60.5 | 60.2 | .8 |
| 8 | 62.5 | 62.3 | 62.0 | 61.8 | 61.6 | 61.3 | 61.0 | 60.8 | 60.6 | 60.3 | 60.0 | 8 |
| .2 | 62.3 | 62.1 | 61.8 | 61.6 | 61.4 | 61.1 | 60.8 | 60.6 | 60.4 | 60.1 | 59.8 | .2 |
| .4 | 62.1 | 61.9 | 61.6 | 61.4 | 61.2 | 60.9 | 60.7 | 60.5 | 60.2 | 59.9 | 59.6 | .4 |
| .6 | 62.0 | 61.8 | 61.5 | 61.3 | 61.1 | 60.8 | 60.5 | 60.3 | 60.1 | 59.8 | 59.5 | .6 |
| .8 | 61.8 | 61.6 | 61.3 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 59.9 | 59.6 | 59.3 | .8 |
| 9 | 61.6 | 61.4 | 61.1 | 60.9 | 60.7 | 60.4 | 60.2 | 60.0 | 59.7 | 59.4 | 59.1 | 9 |
| .2 | 61.4 | 61.2 | 60.9 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 59.2 | 58.9 | .2 |
| .4 | 61.2 | 61.0 | 60.7 | 60.5 | 60.3 | 60.0 | 59.8 | 59.6 | 59.3 | 59.0 | 58.7 | .4 |
| .6 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 59.9 | 59.6 | 59.4 | 59.2 | 58.9 | 58.6 | .6 |
| .8 | 60.9 | 60.7 | 60.4 | 60.2 | 60.0 | 59.7 | 59.4 | 59.2 | 59.0 | 58.7 | 58.4 | .8 |
| 10 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 59.2 | 59.0 | 58.8 | 58.5 | 58.2 | 10 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 59.2 | 59.0 | 58.8 | 58.5 | 58.2 | 10 |
| .2 | 60.5 | 60.3 | 60.0 | 59.8 | 59.6 | 59.3 | 59.0 | 58.8 | 58.6 | 58.3 | 58.0 | .2 |
| .4 | 60.3 | 60.1 | 59.8 | 59.6 | 59.4 | 59.1 | 58.8 | 58.6 | 58.4 | 58.1 | 57.8 | .4 |
| .6 | 60.2 | 60.0 | 59.7 | 59.5 | 59.3 | 59.0 | 58.7 | 58.5 | 58.3 | 58.0 | 57.7 | .6 |
| .8 | 60.0 | 59.8 | 59.5 | 59.3 | 59.1 | 58.8 | 58.5 | 58.3 | 58.1 | 57.8 | 57.5 | .8 |
| 11 | 59.8 | 59.6 | 59.3 | 59.1 | 58.9 | 58.6 | 58.3 | 58.1 | 57.9 | 57.6 | 57.3 | 11 |
| .2 | 59.6 | 59.4 | 59.1 | 58.9 | 58.7 | 58.4 | 58.1 | 57.9 | 57.7 | 57.4 | 57.1 | .2 |
| .4 | 59.4 | 59.2 | 58.9 | 58.7 | 58.5 | 58.2 | 57.9 | 57.7 | 57.5 | 57.2 | 56.9 | .4 |
| .6 | 59.3 | 59.1 | 58.8 | 58.6 | 58.4 | 58.1 | 57.8 | 57.6 | 57.4 | 57.1 | 56.8 | .6 |
| .8 | 59.1 | 58.9 | 58.6 | 58.4 | 58.2 | 57.9 | 57.6 | 57.4 | 57.2 | 56.9 | 56.6 | .8 |
| 12 | 58.9 | 58.7 | 58.4 | 58.2 | 58.0 | 57.7 | 57.4 | 57.2 | 57.0 | 56.7 | 56.4 | 12 |
| .2 | 58.7 | 58.5 | 58.2 | 58.0 | 57.8 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | 56.2 | .2 |
| .4 | 58.5 | 58.3 | 58.0 | 57.8 | 57.6 | 57.3 | 57.0 | 56.8 | 56.6 | 56.3 | 56.0 | .4 |
| .6 | 58.4 | 58.2 | 57.9 | 57.7 | 57.5 | 57.2 | 56.9 | 56.7 | 56.4 | 56.1 | 55.9 | .6 |
| .8 | 58.2 | 58.0 | 57.7 | 57.5 | 57.3 | 57.0 | 56.7 | 56.5 | 56.2 | 55.9 | 55.7 | .8 |
| 13 | 58.0 | 57.8 | 57.5 | 57.3 | 57.1 | 56.8 | 56.5 | 56.3 | 56.0 | 55.7 | 55.5 | 13 |
| .2 | 57.8 | 57.6 | 57.3 | 57.1 | 56.9 | 56.6 | 56.3 | 56.1 | 55.8 | 55.5 | 55.3 | .2 |
| .4 | 57.6 | 57.4 | 57.1 | 56.9 | 56.7 | 56.4 | 56.1 | 55.9 | 55.6 | 55.3 | 55.1 | .4 |
| .6 | 57.5 | 57.3 | 57.0 | 56.8 | 56.5 | 56.3 | 56.0 | 55.8 | 55.5 | 55.2 | 55.0 | .6 |
| .8 | 57.3 | 57.1 | 56.8 | 56.6 | 56.3 | 56.1 | 55.8 | 55.6 | 55.3 | 55.0 | 54.8 | .8 |
| 14 | 57.1 | 56.9 | 56.6 | 56.4 | 56.1 | 55.9 | 55.6 | 55.4 | 55.1 | 54.8 | 54.6 | 14 |
| .2 | 56.9 | 56.7 | 56.4 | 56.2 | 55.9 | 55.7 | 55.4 | 55.2 | 54.9 | 54.6 | 54.4 | .2 |
| .4 | 56.7 | 56.5 | 56.2 | 56.0 | 55.7 | 55.5 | 55.2 | 55.0 | 54.7 | 54.4 | 54.2 | .4 |
| .6 | 56.6 | 56.3 | 56.1 | 55.9 | 55.6 | 55.3 | 55.0 | 54.8 | 54.6 | 54.3 | 54.1 | .6 |
| .8 | 56.4 | 56.1 | 55.9 | 55.7 | 55.4 | 55.1 | 54.8 | 54.6 | 54.4 | 54.1 | 53.9 | .8 |
| 15 | 56.2 | 55.9 | 55.7 | 55.5 | 55.2 | 54.9 | 54.6 | 54.4 | 54.2 | 53.9 | 53.7 | 15 |
| .2 | 56.0 | 55.7 | 55.5 | 55.3 | 55.0 | 54.7 | 54.4 | 54.2 | 54.0 | 53.7 | 53.5 | .2 |
| .4 | 55.8 | 55.5 | 55.3 | 55.1 | 54.8 | 54.5 | 54.2 | 54.0 | 53.8 | 53.5 | 53.3 | .4 |
| .6 | 55.7 | 55.4 | 55.1 | 54.9 | 54.6 | 54.4 | 54.1 | 53.9 | 53.6 | 53.3 | 53.1 | .6 |
| .8 | 55.5 | 55.2 | 54.9 | 54.7 | 54.4 | 54.2 | 53.9 | 53.7 | 53.4 | 53.1 | 52.9 | .8 |
| 16 | 55.3 | 55.0 | 54.7 | 54.5 | 54.2 | 54.0 | 53.7 | 53.5 | 53.2 | 52.9 | 52.7 | 16 |
| .2 | 54.1 | 54.8 | 54.5 | 54.3 | 54.0 | 53.8 | 53.5 | 53.3 | 53.0 | 52.7 | 52.5 | .2 |
| .4 | 54.9 | 54.6 | 54.3 | 54.1 | 53.8 | 53.6 | 53.3 | 53.1 | 52.8 | 52.5 | 52.3 | .4 |
| .6 | 54.7 | 54.4 | 54.1 | 53.9 | 53.7 | 53.4 | 53.2 | 52.9 | 52.6 | 52.3 | 52.1 | .6 |
| .8 | 54.5 | 54.2 | 53.9 | 53.7 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | 52.1 | 51.9 | .8 |
| 17 | 54.3 | 54.0 | 53.7 | 53.5 | 53.3 | 53.0 | 52.8 | 52.5 | 52.2 | 51.9 | 51.7 | 17 |
| .2 | 54.1 | 53.8 | 53.5 | 53.3 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 51.7 | 51.5 | .2 |
| .4 | 53.9 | 53.6 | 53.3 | 53.1 | 52.9 | 52.6 | 52.4 | 52.1 | 51.8 | 51.5 | 51.2 | .4 |
| .6 | 53.7 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 | 51.1 | .6 |
| .8 | 53.5 | 53.3 | 53.0 | 52.8 | 52.5 | 52.2 | 52.0 | 51.7 | 51.4 | 51.2 | 50.9 | .8 |
| 18 | 53.3 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 51.8 | 51.5 | 51.2 | 51.0 | 50.7 | 18 |
| .2 | 53.1 | 52.9 | 52.6 | 52.4 | 52.1 | 51.8 | 51.6 | 51.3 | 51.0 | 50.8 | 50.5 | .2 |
| .4 | 52.9 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 | 51.1 | 50.8 | 50.6 | 50.3 | .4 |
| .6 | 52.8 | 52.5 | 52.3 | 52.0 | 51.7 | 51.4 | 51.2 | 50.9 | 50.6 | 50.4 | 50.1 | .6 |
| .8 | 52.6 | 52.3 | 52.1 | 51.8 | 51.5 | 51.2 | 51.0 | 50.7 | 50.4 | 50.2 | 49.9 | .8 |
| 19 | 52.4 | 52.1 | 51.9 | 51.6 | 51.3 | 51.0 | 50.8 | 50.5 | 50.2 | 50.0 | 49.7 | 19 |
| .2 | 52.2 | 51.9 | 51.7 | 51.4 | 51.1 | 50.8 | 50.6 | 50.3 | 50.0 | 49.8 | 49.5 | .2 |
| .4 | 52.0 | 51.7 | 51.5 | 51.2 | 50.9 | 50.6 | 50.4 | 50.1 | 49.8 | 49.6 | 49.3 | .4 |
| .6 | 51.8 | 51.5 | 51.3 | 51.0 | 50.7 | 50.4 | 50.2 | 49.9 | 49.6 | 49.4 | 49.1 | .6 |
| .8 | 51.6 | 51.3 | 51.1 | 50.8 | 50.5 | 50.2 | 50.0 | 49.7 | 49.4 | 49.2 | 48.9 | .8 |
| 20 | 51.4 | 51.1 | 50.9 | 50.6 | 50.3 | 50.0 | 49.8 | 49.5 | 49.2 | 49.0 | 48.7 | 20 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59 | 60° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 51.4 | 51.1 | 50.9 | 50.6 | 50.3 | 50.0 | 49.8 | 49.5 | 49.2 | 49.0 | 48.7 | 20 |
| .2 | 51.2 | 50.9 | 50.7 | 50.4 | 50.1 | 49.8 | 49.6 | 49.3 | 49.0 | 48.8 | 48.5 | .2 |
| .4 | 51.0 | 50.7 | 50.5 | 50.2 | 49.9 | 49.6 | 49.4 | 49.1 | 48.8 | 48·6 | 48.3 | .4 |
| .6 | 50.8 | 50.5 | 50.3 | 50.0 | 49.7 | 49.4 | 49.2 | 48.9 | 48.6 | 48.3 | 48.0 | .6 |
| .8 | 50.6 | 50.3 | 50.1 | 49.8 | 49.5 | 49.2 | 49.0 | 48.7 | 48.4 | 48.1 | 47.8 | .8 |
| 21 | 50.4 | 50.1 | 49.9 | 49.6 | 49.3 | 49.0 | 48.8 | 48.5 | 48.2 | 47.9 | 47.6 | 21 |
| .2 | 50.2 | 49.9 | 49.7 | 49.4 | 49.1 | 48.8 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | .2 |
| .4 | 50.0 | 49.7 | 49.5 | 49.2 | 48.9 | 48.6 | 48.4 | 48.1 | 47.8 | 47.5 | 47.2 | .4 |
| .6 | 49.8 | 49.5 | 49.3 | 49.0 | 48.7 | 48.4 | 48.1 | 47.8 | 47.6 | 47.3 | 47.0 | .6 |
| .8 | 49.6 | 49.3 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 | 47.6 | 47.4 | 47.1 | 46.8 | .8 |
| 22 | 49.4 | 49.1 | 48.9 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | 47.2 | 46.9 | 46.6 | 22 |
| .2 | 49.2 | 48.9 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.2 | 47.0 | 46.7 | 46.4 | .2 |
| .4 | 49.0 | 48.7 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.0 | 46.8 | 46.5 | 46.2 | .4 |
| .6 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | 47.4 | 47.1 | 46.8 | 46.6 | 46.3 | 46.0 | .6 |
| .8 | 48.6 | 48.3 | 48.0 | 47.7 | 47·5 | 47.2 | 46.9 | 46.6 | 46.4 | 46.1 | 45.8 | .8 |
| 23 | 48.4 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | 46.7 | 46.4 | 46.2 | 45.9 | 45.6 | 23 |
| .2 | 48.2 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 | 46.2 | 46.0 | 45.7 | 45.4 | .2 |
| .4 | 48.0 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | 46.3 | 46.0 | 45.8 | 45.5 | 45.2 | .4 |
| .6 | 47.7 | 47.4 | 47.1 | 46.9 | 46.7 | 46.4 | 46.1 | 45.8 | 45.5 | 45.2 | 45.0 | .6 |
| .8 | 47.5 | 47.2 | 46.9 | 46.7 | 46.5 | 46.2 | 45.9 | 45.6 | 45.3 | 45.0 | 44.8 | .8 |
| 24 | 47.3 | 47.0 | 46.7 | 46.5 | 46.3 | 46.0 | 45.7 | 45.5 | 45.1 | 44.8 | 44.6 | 24 |
| .2 | 47.1 | 46.8 | 46.5 | 46.3 | 46.1 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | 44.4 | .2 |
| .4 | 46.9 | 46.6 | 46.3 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | 44.2 | .4 |
| .6 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 44.8 | 44.5 | 44.2 | 43.9 | .6 |
| .8 | 46.5 | 46.2 | 45.9 | 45.7 | 45.4 | 45.1 | 44.8 | 44.6 | 44.3 | 44.0 | 43.7 | .8 |
| 25 | 46.3 | 46.0 | 45.7 | 45.5 | 45.2 | 44.9 | 44.6 | 44.4 | 44.1 | 43.8 | 43.5 | 25 |
| .2 | 46.1 | 45.8 | 45.5 | 45.3 | 45.0 | 44.7 | 44.4 | 44.2 | 43.9 | 43.6 | 43.3 | .2 |
| .4 | 45.9 | 45.6 | 45.3 | 45.1 | 44.8 | 44.5 | 44.2 | 44.0 | 43.7 | 43.4 | 43.1 | .4 |
| .6 | 45.6 | 45.3 | 45.0 | 44.8 | 44.5 | 44.2 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | .6 |
| .8 | 45.4 | 45.1 | 44.8 | 44.6 | 44.3 | 44.0 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | .8 |
| 26 | 45.2 | 44.9 | 44.6 | 44.4 | 44.1 | 43.8 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 26 |
| .2 | 45.0 | 44.7 | 44.4 | 44.2 | 43.9 | 43.6 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | .2 |
| .4 | 44.8 | 44.5 | 44.2 | 44.0 | 43.7 | 43.4 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | .4 |
| .6 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.7 | .6 |
| .8 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | .8 |
| 27 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 | 27 |
| .2 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | 42.6 | 42.3 | 42.0 | 41.7 | 41.4 | 41.1 | .2 |
| .4 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | 40.9 | .4 |
| .6 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | 42.1 | 41.8 | 41.5 | 41.2 | 40.9 | 40.6 | .6 |
| .8 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.9 | 41.6 | 41.3 | 41.0 | 40.7 | 40.4 | .8 |
| 28 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.7 | 41.4 | 41.1 | 40.8 | 40.5 | 40.2 | 28 |
| .2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.7 | 41.5 | 41.2 | 40.9 | 40.6 | 40.3 | 40.0 | .2 |
| .4 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.3 | 41.0 | 40.7 | 40.4 | 40.1 | 39.8 | .4 |
| .6 | 42.4 | 42.1 | 41.8 | 41.5 | 41.3 | 41.0 | 40.7 | 40.4 | 40.1 | 39.8 | 39.5 | .6 |
| .8 | 42.2 | 41.9 | 41.6 | 41.3 | 41.1 | 40.8 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | .8 |
| 29 | 42.0 | 41.7 | 41.4 | 41.1 | 40.9 | 40.6 | 40.3 | 40.0 | 39.7 | 39.4 | 39.1 | 29 |
| .2 | 41.8 | 41.5 | 41.2 | 40.9 | 40.7 | 40.4 | 40.1 | 39.8 | 39.5 | 39.2 | 38.9 | .2 |
| .4 | 41.6 | 41.3 | 41.0 | 40.7 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.7 | .4 |
| .6 | 41.3 | 41.0 | 40.7 | 40.4 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | .6 |
| .8 | 41.1 | 40.8 | 40.5 | 40.2 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | .8 |
| 30 | 40.9 | 40.6 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 30 |
| INDICATION. | 50° | 51° | 52 | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 30 | 40.9 | 40.6 | 40.3 | 40.0 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 30 |
| .2 | 40.7 | 40.4 | 40.1 | 39.8 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | .2 |
| .4 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.6 | .4 |
| .6 | 40.2 | 39.9 | 39.6 | 39.3 | 39.1 | 38.7 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | .6 |
| .8 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.1 | .8 |
| 31 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.9 | 31 |
| .2 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.7 | .2 |
| .4 | 39.3 | 39.0 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | .4 |
| .6 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.2 | .6 |
| .8 | 38.8 | 38.5 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | .8 |
| 32 | 38.6 | 38.3 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.7 | 32 |
| .2 | 38.4 | 38.1 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | .2 |
| .4 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.8 | 36.5 | 36.2 | 35.8 | 35.5 | 35.2 | .4 |
| .6 | 37.9 | 37.6 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 35.0 | .6 |
| .8 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.3 | 36.0 | 35.7 | 35.3 | 35.0 | 34.7 | .8 |
| 33 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.1 | 35.8 | 35.5 | 35.1 | 34.8 | 34.5 | 33 |
| .2 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.9 | 35.6 | 35.3 | 34.9 | 34.6 | 34.3 | .2 |
| .4 | 37.0 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | .4 |
| .6 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.4 | 35.1 | 34.8 | 34.4 | 34.1 | 33.8 | .6 |
| .8 | 36.5 | 36.3 | 36.0 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | .8 |
| 34 | 36.3 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 34 |
| .2 | 36.1 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | .2 |
| .4 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | .4 |
| .6 | 35.6 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | .6 |
| .8 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | .8 |
| 35 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.8 | 32.5 | 32.2 | 35 |
| .2 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | .2 |
| .4 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | .4 |
| .6 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | .6 |
| .8 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | .8 |
| 36 | 34.0 | 33.7 | 33.5 | 33.1 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | 31.0 | 36 |
| .2 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | .2 |
| .4 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | 30.5 | .4 |
| .6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.3 | .6 |
| .8 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.3 | 30.0 | .8 |
| 37 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | 29.8 | 37 |
| .2 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | 30.5 | 30.1 | 29.8 | 29.5 | .2 |
| .4 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | 29.3 | .4 |
| .6 | 32.1 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.3 | 30.0 | 29.6 | 29.3 | 29.0 | .6 |
| .8 | 31.8 | 31.5 | 31.2 | 30.9 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.1 | 28.8 | .8 |
| 38 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | 29.8 | 29.5 | 29.1 | 28.8 | 28.5 | 38 |
| .2 | 31.4 | 31.1 | 30.8 | 30.4 | 30.1 | 29.9 | 29.6 | 29.2 | 28.9 | 28.6 | 28.3 | .2 |
| .4 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | 29.3 | 29.0 | 28.6 | 28.3 | 28.0 | .4 |
| .6 | 30.9 | 30.6 | 30.3 | 29.9 | 29.6 | 29.4 | 29.1 | 28.7 | 28.4 | 28.1 | 27.8 | .6 |
| .8 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.1 | 28.8 | 28.5 | 28.1 | 27.8 | 27.5 | .8 |
| 39 | 30.4 | 30.1 | 29.8 | 29.4 | 29.1 | 28.9 | 28.6 | 28.2 | 27.9 | 27.6 | 27.3 | 39. |
| .2 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.3 | 27.0 | .2 |
| .4 | 29.9 | 29.6 | 29.3 | 28.9 | 28.6 | 28.4 | 28.1 | 27.7 | 27.4 | 27.1 | 26.8 | .4 |
| .6 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.8 | 26.5 | .6 |
| .8 | 29.4 | 29.1 | 28.8 | 28.4 | 28.1 | 27.9 | 27.6 | 27.2 | 26.9 | 26.6 | 26.3 | .8 |
| 40 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.3 | 26.0 | 40 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 40 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.3 | 26.0 | 40 |
| .2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | .2 |
| .4 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.8 | 25.5 | .4 |
| .6 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | .6 |
| .8 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.3 | 25.0 | .8 |
| 41 | 27.9 | 27.6 | 27.3 | 27.0 | 26.7 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 41 |
| .2 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.8 | 24.5 | .2 |
| .4 | 27.4 | 27.1 | 26.8 | 26.5 | 26.2 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | .4 |
| .6 | 27.1 | 26.9 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.3 | 24.0 | .6 |
| .8 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | .8 |
| 42 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | 23.8 | 23.5 | 42 |
| .2 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.8 | 24.5 | 24.2 | 23.9 | 23.6 | 23.2 | .2 |
| .4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | 23.3 | 23.0 | .4 |
| .6 | 25.9 | 25.6 | 25.3 | 25.0 | 24.7 | 24.3 | 24.0 | 23.7 | 23.4 | 23.1 | 22.7 | .6 |
| .8 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.5 | 23.2 | 22.8 | 22.5 | .8 |
| 43 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | 23.8 | 23.5 | 23.2 | 22.9 | 22.6 | 22.2 | 43 |
| .2 | 25.1 | 24.8 | 24.5 | 24.2 | 23.9 | 23.5 | 23.2 | 22.9 | 22.6 | 22.3 | 21.9 | .2 |
| .4 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | 23.3 | 23.0 | 22.7 | 22.4 | 22.1 | 21.7 | .4 |
| .6 | 24.6 | 24.3 | 24.0 | 23.7 | 23.4 | 23.0 | 22.7 | 22.4 | 22.1 | 21.8 | 21.4 | .6 |
| .8 | 24.4 | 24.1 | 23.8 | 23.5 | 23.2 | 22.8 | 22.5 | 22.2 | 21.9 | 21.6 | 21.2 | .8 |
| 44 | 24.1 | 23.8 | 23.5 | 23.2 | 22.9 | 22.5 | 22.2 | 21.9 | 21.6 | 21.3 | 20.9 | 44 |
| .2 | 23.8 | 23.5 | 23.2 | 22.9 | 22.6 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.6 | .2 |
| .4 | 23.6 | 23.3 | 23.0 | 22.6 | 22.3 | 22.0 | 21.7 | 21.4 | 21.0 | 20.7 | 20.4 | .4 |
| .6 | 23.3 | 23.0 | 22.7 | 22.4 | 22.1 | 21.7 | 21.4 | 21.1 | 20.8 | 20.5 | 20.1 | .6 |
| .8 | 23.1 | 22.8 | 22.5 | 22.1 | 21.8 | 21.5 | 21.2 | 20.9 | 20.5 | 20.2 | 19.9 | .8 |
| 45 | 22.8 | 22.5 | 22.2 | 21.8 | 21.5 | 21.2 | 20.9 | 20.6 | 20.2 | 19.9 | 19.6 | 45 |
| .2 | 22.5 | 22.2 | 21.9 | 21.5 | 21.2 | 20.9 | 20.6 | 20.3 | 19.9 | 19.6 | 19.3 | .2 |
| .4 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.4 | 20.0 | 19.7 | 19.4 | 19.1 | .4 |
| .6 | 22.0 | 21.7 | 21.4 | 21.0 | 20.7 | 20.4 | 20.1 | 19.8 | 19.4 | 19.1 | 18.8 | .6 |
| .8 | 21.7 | 21.4 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.5 | 19.2 | 18.9 | 18.6 | .8 |
| 46 | 21.4 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.6 | 19.2 | 18.9 | 18.6 | 18.3 | 46 |
| .2 | 21.1 | 20.8 | 20.5 | 20.2 | 19.9 | 19.6 | 19.3 | 18.9 | 18.6 | 18.3 | 18.0 | .2 |
| .4 | 20.9 | 20.6 | 20.3 | 20.0 | 19.7 | 19.4 | 19.1 | 18.7 | 18.4 | 18.0 | 17.7 | .4 |
| .6 | 20.6 | 20.3 | 20.0 | 19.7 | 19.4 | 19.1 | 18.8 | 18.4 | 18.1 | 17.8 | 17.5 | .6 |
| .8 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.2 | 17.9 | 17.5 | 17.2 | .8 |
| 47 | 20.1 | 19.8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 17.9 | 17.6 | 17.2 | 16.9 | 47 |
| .2 | 19.8 | 19.5 | 19.2 | 18.9 | 18.6 | 18.3 | 18.0 | 17.6 | 17.3 | 16.9 | 16.6 | .2 |
| .4 | 19.6 | 19.3 | 19.0 | 18.7 | 18.3 | 18.0 | 17.7 | 17.4 | 17.1 | 16.7 | 16.4 | .4 |
| .6 | 19.3 | 19.0 | 18.7 | 18.4 | 18.1 | 17.8 | 17.5 | 17.1 | 16.8 | 16.4 | 16.1 | .6 |
| .8 | 19.1 | 18.8 | 18.5 | 18.2 | 17.8 | 17.5 | 17.2 | 16.9 | 16.6 | 16.2 | 15.9 | .8 |
| 48 | 18.8 | 18.5 | 18.2 | 17.9 | 17.5 | 17.2 | 16.9 | 16.6 | 16 3 | 15.9 | 15.6 | 48 |
| .2 | 18.5 | 18.2 | 17.9 | 17.6 | 17.2 | 16.9 | 16.6 | 16.3 | 16.0 | 15.6 | 15.3 | .2 |
| .4 | 18.2 | 17.9 | 17.6 | 17.3 | 17.0 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.0 | .4 |
| .6 | 18.0 | 17.7 | 17.4 | 17.1 | 16.7 | 16.4 | 16.1 | 15.8 | 15.5 | 15.1 | 14.8 | .6 |
| .8 | 17.7 | 17.4 | 17.1 | 16.8 | 16.5 | 16.1 | 15.8 | 15.5 | 15.2 | 14.9 | 14.5 | .8 |
| 49 | 17.4 | 17.1 | 16.8 | 16.5 | 16.2 | 15.8 | 15.5 | 15.2 | 14.9 | 14.6 | 14.2 | 49 |
| .2 | 17.1 | 16.8 | 16.5 | 16.2 | 15.9 | 15.5 | 15.2 | 14.9 | 14.6 | 14.3 | 13.9 | .2 |
| .4 | 16.9 | 16.5 | 16.2 | 15.9 | 15.6 | 15.2 | 14.9 | 14.6 | 14.3 | 14.0 | 13.6 | .4 |
| .6 | 16.6 | 16.3 | 16.0 | 15.7 | 15.4 | 15.0 | 14.7 | 14.4 | 14.1 | 13.7 | 13.4 | .6 |
| .8 | 16.4 | 16.0 | 15.7 | 15.4 | 15.1 | 14.7 | 14.4 | 14.1 | 13.8 | 13.4 | 13.1 | .8 |
| 50 | 16.1 | 15.7 | 15.4 | 15.1 | 14.8 | 14.5 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 50 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 16.1 | 15.7 | 15.4 | 15.1 | 14.8 | 14.5 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 50 |
| .2 | 15.8 | 15.4 | 15.1 | 14.8 | 14.5 | 14.1 | 13.8 | 13.5 | 13.2 | 12.8 | 12.5 | .2 |
| .4 | 15.5 | 15.2 | 14.8 | 14.5 | 14.2 | 13.8 | 13.5 | 13.2 | 12.9 | 12.5 | 12.2 | .4 |
| .6 | 15.3 | 14.9 | 14.6 | 14.3 | 14.0 | 13.6 | 13.3 | 13.0 | 12.7 | 12.3 | 12.0 | .6 |
| .8 | 15.0 | 14.7 | 14.3 | 14.0 | 13.7 | 13.3 | 13.0 | 12.7 | 12.4 | 12.0 | 11.7 | .8 |
| 51 | 14.7 | 14.4 | 14.0 | 13.7 | 13.3 | 13.0 | 12.7 | 12.4 | 12.1 | 11.7 | 11.4 | 51 |
| .2 | 14.4 | 14.1 | 13.7 | 13.4 | 13.1 | 12.7 | 12.4 | 12.1 | 11.8 | 11.4 | 11.1 | .2 |
| .4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 12.4 | 12.1 | 11.8 | 11.5 | 11.1 | 10.8 | .4 |
| .6 | 13.9 | 13.6 | 13.2 | 12.9 | 12.6 | 12.2 | 11.9 | 11.6 | 11.3 | 10.9 | 10.6 | .6 |
| .8 | 13.6 | 13.3 | 13.0 | 12.6 | 12.3 | 11.9 | 11.6 | 11.3 | 11.0 | 10.6 | 10.3 | .8 |
| 52 | 13.3 | 13.0 | 12.7 | 12.3 | 12.0 | 11.6 | 11.3 | 11.0 | 10.7 | 10.3 | 10.0 | 52 |
| .2 | 13.0 | 12.7 | 12.4 | 12.0 | 11.7 | 11.3 | 11.0 | 10.7 | 10.4 | 10.0 | 9.7 | .2 |
| .4 | 12.7 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | 10.7 | 10.4 | 10.1 | 9.7 | 9.4 | .4 |
| .6 | 12.5 | 12.1 | 11.8 | 11.5 | 11.2 | 10.8 | 10.5 | 10.1 | 9.8 | 9.5 | 9.2 | .6 |
| .8 | 12.2 | 11.8 | 11.5 | 11.2 | 10.9 | 10.5 | 10.2 | 9.8 | 9.5 | 9.2 | 8.9 | .8 |
| 53 | 11.9 | 11.5 | 11.2 | 10.9 | 10.6 | 10.2 | 9.9 | 9.5 | 9.2 | 8.9 | 8.6 | 53 |
| .2 | 11.6 | 11.2 | 10.9 | 10.6 | 10.3 | 9.9 | 9.6 | 9.2 | 8.9 | 8.6 | 8.3 | .2 |
| .4 | 11.3 | 10.9 | 10.6 | 10.3 | 10.0 | 9.6 | 9.3 | 8.9 | 8.6 | 8.3 | 8.0 | .4 |
| .6 | 11.1 | 10.7 | 10.4 | 10.1 | 9.7 | 9.4 | 9.1 | 8.7 | 8.4 | 8.0 | 7.7 | .6 |
| .8 | 10.8 | 10.4 | 10.1 | 9.8 | 9.4 | 9.1 | 8.8 | 8.4 | 8.1 | 7.7 | 7.4 | .8 |
| 54 | 10.5 | 10.1 | 9.8 | 9.5 | 9.1 | 8.8 | 8.5 | 8.1 | 7.8 | 7.4 | 7.1 | 54 |
| .2 | 10.2 | 9.8 | 9.5 | 9.2 | 8.8 | 8.5 | 8.2 | 7.8 | 7.5 | 7.1 | 6.8 | .2 |
| .4 | 9.9 | 9.5 | 9.2 | 8.9 | 8.5 | 8.2 | 7.9 | 7.5 | 7.2 | 6.8 | 6.5 | .4 |
| .6 | 9.6 | 9.3 | 9.0 | 8.7 | 8.3 | 8.0 | 7.7 | 7.3 | 7.0 | 6.6 | 6.2 | .6 |
| .8 | 9.3 | 9.0 | 8.7 | 8.4 | 8.0 | 7.7 | 7.4 | 7.0 | 6.7 | 6.3 | 5.9 | .8 |
| 55 | 9.0 | 8.7 | 8.4 | 8.1 | 7.7 | 7.4 | 7.1 | 6.7 | 6.4 | 6.0 | 5.6 | 55 |
| .2 | 8.7 | 8.4 | 8.1 | 7.8 | 7.4 | 7.1 | 6.8 | 6.4 | 6.1 | 5.7 | 5.3 | .2 |
| .4 | 8.4 | 8.1 | 7.8 | 7.5 | 7.1 | 6.8 | 6.5 | 6.1 | 5.8 | 5.4 | 5.0 | .4 |
| .6 | 8.1 | 7.8 | 7.5 | 7.2 | 6.8 | 6.5 | 6.1 | 5.8 | 5.5 | 5.1 | 4.8 | .6 |
| .8 | 7.8 | 7.5 | 7.2 | 6.9 | 6.5 | 6.2 | 5.8 | 5.5 | 5.2 | 4.8 | 4.5 | .8 |
| 56 | 7.5 | 7.2 | 6.9 | 6.6 | 6.2 | 5.9 | 5.5 | 5.2 | 4.9 | 4.5 | 4.2 | 56 |
| .2 | 7.2 | 6.9 | 6.6 | 6.3 | 5.9 | 5.6 | 5.2 | 4.9 | 4.6 | 4.2 | 3.9 | .2 |
| .4 | 6.9 | 6.6 | 6.3 | 6.0 | 5.6 | 5.3 | 4.9 | 4.6 | 4.3 | 3.9 | 3.6 | .4 |
| .6 | 6.7 | 6.3 | 6.0 | 5.7 | 5.4 | 5.0 | 4.7 | 4.3 | 4.0 | 3.6 | 3.3 | .6 |
| .8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.1 | 4.7 | 4.4 | 4.0 | 3.7 | 3.3 | 3.0 | .8 |
| 57 | 6.1 | 5.7 | 5.4 | 5.1 | 4.8 | 4.4 | 4.1 | 3.7 | 3.4 | 3.0 | 2.7 | 57 |
| .2 | 5.8 | 5.4 | 5.1 | 4.8 | 4.5 | 4.1 | 3.8 | 3.4 | 3.1 | 2.7 | 2.4 | .2 |
| .4 | 5.5 | 5.1 | 4.8 | 4.5 | 4.2 | 3.8 | 3.5 | 3.1 | 2.8 | 2.4 | 2.1 | .4 |
| .6 | 5.2 | 4.9 | 4.5 | 4.2 | 3.9 | 3.5 | 3.2 | 2.8 | 2.5 | 2.1 | 1.9 | .6 |
| .8 | 4.9 | 4.6 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 2.5 | 2.2 | 1.8 | 1.6 | .8 |
| 58 | 4.6 | 4.3 | 3.9 | 3.6 | 3.3 | 2.9 | 2.6 | 2.2 | 1.9 | 1.5 | 1.3 | 58 |
| .2 | 4.3 | 4.0 | 3.6 | 3.3 | 3.0 | 2.6 | 2.3 | 1.9 | 1.6 | 1.2 | 1.0 | .2 |
| .4 | 4.0 | 3.7 | 3.3 | 3.0 | 2.7 | 2.3 | 2.0 | 1.6 | 1.3 | .9 | .7 | .4 |
| .6 | 3.7 | 3.4 | 3.0 | 2.7 | 2.3 | 2.0 | 1.7 | 1.3 | 1.0 | .6 | .3 | .6 |
| .8 | 3.4 | 3.1 | 2.7 | 2.4 | 2.0 | 1.7 | 1.4 | 1.0 | .7 | .3 | .0 | .8 |
| 59 | 3.1 | 2.8 | 2.4 | 2.1 | 1.7 | 1.4 | 1.1 | .7 | .4 | .0 | .3 | 59 |
| .2 | 2.8 | 2.5 | 2.1 | 1.8 | 1.4 | 1.1 | .8 | .4 | .1 | .3 | .6 | .2 |
| .4 | 2.5 | 2.2 | 1.8 | 1.5 | 1.1 | .8 | .5 | .1 | .2 | .6 | .9 | .4 |
| .6 | 2.1 | 1.8 | 1.5 | 1.2 | .8 | .5 | .1 | .3 | .6 | .9 | 1.3 | .6 |
| .8 | 1.8 | 1.5 | 1.2 | .9 | .5 | .2 | .2 | .6 | .9 | 1.2 | 1.6 | .8 |
| 60 | 1.5 | 1.2 | .9 | .6 | .2 | .1 | .5 | .9 | 1.2 | 1.5 | 1.9 | 60 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 60 | 1.5 | 1.2 | .9 | .6 | .2 | .1 | .5 | .9 | 1.2 | 1.5 | 1.9 | 60 |
| .2 | 1.2 | .9 | .6 | .3 | .1 | .4 | .8 | 1.2 | 1.5 | 1.8 | 2.2 | .2 |
| .4 | .9 | .6 | .3 | .0 | .4 | .7 | 1.1 | 1.5 | 1.8 | 2.1 | 2.5 | .4 |
| .6 | .6 | .3 | .1 | .4 | .8 | 1.1 | 1.4 | 1.8 | 2.2 | 2.5 | 2.8 | .6 |
| .8 | .3 | .0 | .4 | .7 | 1.1 | 1.4 | 1.7 | 2.1 | 2.5 | 2.8 | 3.1 | .8 |
| 61 | .0 | .3 | .7 | 1.0 | 1.4 | 1.7 | 2.0 | 2.4 | 2.8 | 3.1 | 3.4 | 61 |
| .2 | .3 | .6 | 1.0 | 1.3 | 1.7 | 2.0 | 2.3 | 2.7 | 3.1 | 3.4 | 3.7 | .2 |
| .4 | .6 | .9 | 1.3 | 1.6 | 2.0 | 2.3 | 2.6 | 3.0 | 3.4 | 3.7 | 4.0 | .4 |
| .6 | .9 | 1.3 | 1.6 | 2.0 | 2.3 | 2.7 | 3.0 | 3.4 | 3.7 | 4.1 | 4.4 | .6 |
| .8 | 1.2 | 1.6 | 1.9 | 2.3 | 2.6 | 3.0 | 3.3 | 3.7 | 4.0 | 4.4 | 4.7 | .8 |
| 62 | 1.5 | 1.9 | 2.2 | 2.6 | 2.9 | 3.3 | 3.6 | 4.0 | 4.3 | 4.7 | 5.0 | 62 |
| .2 | 1.8 | 2.2 | 2.5 | 2.9 | 3.2 | 3.6 | 3.9 | 4.3 | 4.6 | 5.0 | 5.3 | .2 |
| .4 | 2.1 | 2.5 | 2.8 | 3.2 | 3.5 | 3.9 | 4.2 | 4.6 | 5.0 | 5.3 | 5.7 | .4 |
| .6 | 2.5 | 2.9 | 3.2 | 3.5 | 3.9 | 4.3 | 4.6 | 5.0 | 5.3 | 5.7 | 6.0 | .6 |
| .8 | 2.8 | 3.2 | 3.5 | 3.8 | 4.2 | 4.6 | 4.9 | 5.3 | 5.7 | 6.0 | 6.4 | .8 |
| 63 | 3.1 | 3.5 | 3.8 | 4.1 | 4.5 | 4.9 | 5.2 | 5.6 | 6.0 | 6.3 | 6.7 | 63 |
| .2 | 3.4 | 3.8 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 | 6.3 | 6.6 | 7.0 | .2 |
| .4 | 3.7 | 4.1 | 4.5 | 4.8 | 5.2 | 5.6 | 5.9 | 6.2 | 6.6 | 6.9 | 7.3 | .4 |
| .6 | 4.1 | 4.5 | 4.8 | 5.1 | 5.5 | 5.9 | 6.2 | 6.6 | 7.0 | 7.3 | 7.7 | .6 |
| .8 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 | 6.3 | 6.6 | 6.9 | 7.3 | 7.6 | 8.0 | .8 |
| 64 | 4.7 | 5.1 | 5.5 | 5.8 | 6.2 | 6.6 | 6.9 | 7.2 | 7.6 | 7.9 | 8.3 | 64 |
| .2 | 5.0 | 5.4 | 5.8 | 6.1 | 6.5 | 6.9 | 7.2 | 7.5 | 7.9 | 8.2 | 8.6 | .2 |
| .4 | 5.4 | 5.8 | 6.2 | 6.5 | 6.8 | 7.2 | 7.5 | 7.9 | 8.3 | 8.6 | 9.0 | .4 |
| .6 | 5.7 | 6.1 | 6.5 | 6.8 | 7.2 | 7.6 | 7.9 | 8.2 | 8.6 | 8.9 | 9.3 | .6 |
| .8 | 6.1 | 6.5 | 6.9 | 7.2 | 7.5 | 7.9 | 8.2 | 8.6 | 9.0 | 9.3 | 9.7 | .8 |
| 65 | 6.4 | 6.8 | 7.2 | 7.5 | 7.8 | 8.2 | 8.5 | 8.9 | 9.3 | 9.6 | 10.0 | 65 |
| .2 | 6.7 | 7.1 | 7.5 | 7.8 | 8.1 | 8.5 | 8.8 | 9.2 | 9.6 | 9.9 | 10.3 | .2 |
| .4 | 7.1 | 7.4 | 7.8 | 8.2 | 8.5 | 8.9 | 9.2 | 9.6 | 10.0 | 10.3 | 10.7 | .4 |
| .6 | 7.4 | 7.8 | 8.2 | 8.5 | 8.8 | 9.2 | 9.5 | 9.9 | 10.3 | 10.6 | 11.0 | .6 |
| .8 | 7.8 | 8.1 | 8.5 | 8.9 | 9.2 | 9.6 | 9.9 | 10.3 | 10.7 | 11.0 | 11 4 | .8 |
| 66 | 8.1 | 8.4 | 8.8 | 9.2 | 9.5 | 9.9 | 10.2 | 10.6 | 11.0 | 11.3 | 11.7 | 66 |
| .2 | 8.4 | 8.7 | 9.1 | 9.5 | 9.8 | 10.2 | 10.6 | 10.9 | 11.3 | 11.7 | 12.1 | .2 |
| .4 | 8.8 | 9.1 | 9.5 | 9.9 | 10.2 | 10.6 | 10.9 | 11.3 | 11.7 | 12.0 | 12.4 | .4 |
| .6 | 9.1 | 9.4 | 9.8 | 10.2 | 10.5 | 10.9 | 11.3 | 11.6 | 12.0 | 12.4 | 12.8 | .6 |
| .8 | 9.5 | 9.8 | 10.2 | 10.6 | 10.9 | 11.3 | 11.6 | 12.0 | 12.4 | 12.7 | 13.1 | .8 |
| 67 | 9.8 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12.0 | 12 3 | 12.7 | 13.1 | 13.5 | 67 |
| .2 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12.0 | 12.4 | 12.7 | 13.1 | 13.5 | 13.9 | .2 |
| .4 | 10.5 | 10.8 | 11.2 | 11.6 | 11.9 | 12.3 | 12.7 | 13.0 | 13.4 | 13.8 | 14.2 | .4 |
| .6 | 10.8 | 11.2 | 11.6 | 11.9 | 12.3 | 12.7 | 13.1 | 13.4 | 13.8 | 14.2 | 14.6 | .6 |
| .8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.6 | 13.0 | 13.4 | 13.7 | 14.1 | 14.5 | 14.9 | .8 |
| 68 | 11.5 | 11.9 | 12.3 | 12.6 | 13.0 | 13.4 | 13.8 | 14.1 | 14.5 | 14.9 | 15.3 | 68 |
| .2 | 11.9 | 12.3 | 12.7 | 13.0 | 13.4 | 13.8 | 14.2 | 14.5 | 14.9 | 15.3 | 15.7 | .2 |
| .4 | 12.2 | 12.6 | 13.0 | 13.3 | 13.7 | 14.1 | 14.5 | 14.8 | 15.2 | 15.6 | 16.0 | .4 |
| .6 | 12.6 | 13.0 | 13.4 | 13.7 | 14.1 | 14.5 | 14.9 | 15.2 | 15.6 | 16.0 | 16.4 | .6 |
| .8 | 12.9 | 13.3 | 13.7 | 14.0 | 14.4 | 14.8 | 15.2 | 15.5 | 15.9 | 16.3 | 16 7 | .8 |
| 69 | 13.3 | 13.7 | 14.1 | 14.4 | 14.8 | 15.2 | 15.6 | 15.9 | 16.3 | 16.7 | 17.1 | 69 |
| .2 | 13.7 | 14.1 | 14.5 | 14.8 | 15.2 | 15.6 | 16.0 | 16.3 | 16.7 | 17.1 | 17.5 | .2 |
| .4 | 14.0 | 14.4 | 14.8 | 15.1 | 15.5 | 15.9 | 16.3 | 16.7 | 17.1 | 17.5 | 17.8 | .4 |
| .6 | 14.4 | 14.8 | 15.2 | 15.5 | 15.9 | 16.3 | 16.7 | 17.0 | 17.4 | 17.8 | 18.2 | .6 |
| .8 | 14.7 | 15.1 | 15.5 | 15.8 | 16.2 | 16.6 | 17.0 | 17.4 | 17.8 | 18.2 | 18.5 | .8 |
| 70 | 15.1 | 15.5 | 15.9 | 16.2 | 16.6 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 18.9 | 70 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 70 | 15.1 | 15.5 | 15.9 | 16.2 | 16.6 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 18.9 | 70 |
| .2 | 15.5 | 15.9 | 16.3 | 16.6 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.3 | .2 |
| .4 | 15.9 | 16.3 | 16.7 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.7 | .4 |
| .6 | 16.2 | 16.6 | 17.0 | 17.3 | 17.7 | 18.1 | 18.5 | 18.9 | 19.3 | 19.7 | 20.0 | .6 |
| .8 | 16.6 | 17.0 | 17.4 | 17.7 | 18.1 | 18.5 | 18.9 | 19.3 | 19.7 | 20.1 | 20.4 | .8 |
| 71 | 17.0 | 17.4 | 17.8 | 18.1 | 18.5 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.8 | 71 |
| .2 | 17.4 | 17.8 | 18.2 | 18.5 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.2 | .2 |
| .4 | 17.8 | 18.2 | 18.6 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.6 | .4 |
| .6 | 18.1 | 18.5 | 18.9 | 19.2 | 19.6 | 20.0 | 20.4 | 20.8 | 21.2 | 21.6 | 21.9 | .6 |
| .8 | 18.5 | 18.9 | 19.3 | 19.6 | 20.0 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.3 | .8 |
| 72 | 18.9 | 19.3 | 19.7 | 20.0 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.7 | 72 |
| .2 | 19.3 | 19.7 | 20.1 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.1 | .2 |
| .4 | 19.7 | 20.1 | 20.5 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.5 | .4 |
| .6 | 20.1 | 20.5 | 20.9 | 21.2 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | .6 |
| .8 | 20.5 | 20.9 | 21.3 | 21.6 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | .8 |
| 73 | 20.9 | 21.3 | 21.7 | 22.0 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 73 |
| .2 | 21.3 | 21.7 | 22.1 | 22.4 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | .2 |
| .4 | 21.7 | 22.1 | 22.5 | 22.8 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | .4 |
| .6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | .6 |
| .8 | 22.4 | 22.8 | 23.2 | 23.6 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | .8 |
| 74 | 22.8 | 23.2 | 23.6 | 24.0 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 74 |
| .2 | 23.2 | 23.6 | 24.0 | 24.4 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | .2 |
| .4 | 23.6 | 24.0 | 24.4 | 24.8 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | .4 |
| .6 | 24.1 | 24.5 | 24.9 | 25.3 | 25.6 | 26.0 | 26.4 | 26.8 | 27.2 | 27.6 | 28.0 | .6 |
| .8 | 24.5 | 24.9 | 25.3 | 25.7 | 26.0 | 26.4 | 26.8 | 27.2 | 27.6 | 28.0 | 28.4 | .8 |
| 75 | 24.9 | 25.3 | 25.7 | 26.1 | 26.4 | 26.8 | 27.2 | 27.6 | 28.0 | 28.4 | 28.8 | 75 |
| .2 | 25.3 | 25.7 | 26.1 | 26.5 | 26.8 | 27.2 | 27.6 | 28.0 | 28.4 | 28.8 | 29.2 | .2 |
| .4 | 25.7 | 26.1 | 26.5 | 26.9 | 27.3 | 27.7 | 28.1 | 28.5 | 28.9 | 29.3 | 29.7 | .4 |
| .6 | 26.2 | 26.6 | 27.0 | 27.4 | 27.7 | 28.1 | 28.5 | 28.9 | 29.3 | 29.7 | 30.1 | .6 |
| .8 | 26.6 | 27.0 | 27.4 | 27.8 | 28.2 | 28.6 | 29.0 | 29.4 | 29.8 | 30.2 | 30.6 | .8 |
| 76 | 27.0 | 27.4 | 27.8 | 28.2 | 28 6 | 29.0 | 29.4 | 29.8 | 30.2 | 30 6 | 31.0 | 76 |
| .2 | 27.4 | 27.8 | 28.2 | 28.6 | 29.0 | 29.4 | 29.8 | 30.2 | 30.6 | 31.0 | 31.4 | .2 |
| .4 | 27.9 | 28.3 | 28.7 | 29.1 | 29.5 | 29.9 | 30.3 | 30.7 | 31.1 | 31.5 | 31.9 | .4 |
| .6 | 28.3 | 28.7 | 29.1 | 29.5 | 29.9 | 30.3 | 30.7 | 31.1 | 31.5 | 31.9 | 32.3 | .6 |
| .8 | 28.8 | 29.2 | 29.6 | 30.0 | 30.4 | 30.8 | 31.2 | 31.6 | 32.0 | 32.4 | 32.8 | .8 |
| 77 | 29.2 | 29.6 | 30.0 | 30.4 | 30.8 | 31.2 | 31.6 | 32.0 | 32.4 | 32.8 | 33.2 | 77 |
| .2 | 29.7 | 30.1 | 30.5 | 30.9 | 31.3 | 31.7 | 32.1 | 32.5 | 32.9 | 33.3 | 33.7 | .2 |
| .4 | 30.1 | 30.5 | 30.9 | 31.3 | 31.7 | 32.1 | 32.5 | 32.9 | 33.3 | 33.8 | 34.2 | .4 |
| .6 | 30.6 | 31.0 | 31.4 | 31.8 | 32.2 | 32.6 | 33.0 | 33.4 | 33.8 | 34.2 | 34.6 | .6 |
| .8 | 31.0 | 31.4 | 31.8 | 32.2 | 32.6 | 33.0 | 33.4 | 33.8 | 34.2 | 34.7 | 35.1 | .8 |
| 78 | 31.5 | 31.9 | 32.3 | 32.7 | 33.1 | 33.5 | 33.9 | 34.3 | 34.7 | 35.2 | 35.6 | 78 |
| .2 | 32.0 | 32.4 | 32.8 | 33.2 | 33.6 | 34.0 | 34.4 | 34.8 | 35.2 | 35.7 | 36.1 | .2 |
| .4 | 32.5 | 32.9 | 33.3 | 33.7 | 34.1 | 34.5 | 34.9 | 35.3 | 35.7 | 36.2 | 36.6 | .4 |
| .6 | 32.9 | 33.3 | 33.7 | 34.2 | 34.6 | 35.0 | 35.4 | 35.8 | 36.2 | 36.6 | 37.1 | .6 |
| .8 | 33.4 | 33.8 | 34.2 | 34.7 | 35.1 | 35.5 | 35.9 | 36.3 | 36.7 | 37.1 | 37.6 | .8 |
| 79 | 33.9 | 34.3 | 34.7 | 35.2 | 35.6 | 36.0 | 36.4 | 36.8 | 37.2 | 37.6 | 38.1 | 79 |
| .2 | 34.4 | 34.8 | 35.2 | 35.7 | 36.1 | 36.5 | 36.9 | 37.3 | 37.7 | 38.1 | 38.6 | .2 |
| .4 | 34.9 | 35.3 | 35.7 | 36.2 | 36.6 | 37.0 | 37.4 | 37.8 | 38.2 | 38.6 | 39.1 | .4 |
| .6 | 35.5 | 35.9 | 36.3 | 36.7 | 37.1 | 37.5 | 37.9 | 38.3 | 38.7 | 39.2 | 39.6 | .6 |
| .8 | 36.0 | 36.4 | 36.8 | 37.2 | 37.6 | 38.0 | 38.4 | 38.8 | 39.2 | 39.7 | 40.1 | .8 |
| 80 | 36.5 | 36.9 | 37.3 | 37.7 | 38.1 | 38.5 | 38.9 | 39.3 | 39.7 | 40.2 | 40.6 | 80 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 36.5 | 36.9 | 37.3 | 37.7 | 38.1 | 38.5 | 38.9 | 39.3 | 39.7 | 40.2 | 40.6 | 80 |
| .2 | 37.0 | 37.4 | 37.8 | 38.2 | 38.6 | 39.0 | 39.4 | 39.8 | 40.2 | 40.7 | 41.1 | .2 |
| .4 | 37.5 | 37.9 | 38.3 | 38.7 | 39.1 | 39.5 | 40.0 | 40.4 | 40.8 | 41.2 | 41.7 | .4 |
| .6 | 38.1 | 38.5 | 38.9 | 39.3 | 39.7 | 40.1 | 40.5 | 40.9 | 41.3 | 41.8 | 42.2 | .6 |
| .8 | 38.6 | 39.0 | 39.4 | 39.8 | 40.2 | 40.6 | 41.1 | 41.5 | 41.9 | 42.3 | 42.8 | .8 |
| 81 | 39.1 | 39 5 | 39.9 | 40.3 | 40.7 | 41.1 | 41.6 | 42.0 | 42.4 | 42 8 | 43.3 | 81 |
| .2 | 39.7 | 40.1 | 40.5 | 40.9 | 41.3 | 41.7 | 42.2 | 42.6 | 43.0 | 43.4 | 43.9 | .2 |
| .4 | 40.2 | 40.6 | 41.0 | 41.4 | 41.8 | 42.2 | 42.7 | 43.1 | 43.6 | 44.0 | 44.4 | .4 |
| .6 | 40.8 | 41.2 | 41.6 | 42.0 | 42.4 | 42.8 | 43.3 | 43.7 | 44.1 | 44.5 | 45.0 | .6 |
| .8 | 41.3 | 41.7 | 42.1 | 42.5 | 42.9 | 43.3 | 43.8 | 44.2 | 44.7 | 45.1 | 45.5 | .8 |
| 82 | 41.9 | 42.3 | 42.7 | 43.1 | 43.5 | 43.9 | 44.4 | 44.8 | 45.3 | 45.7 | 46.1 | 82 |
| .2 | 42.5 | 42.9 | 43.3 | 43.7 | 44 1 | 44.5 | 45.0 | 45.4 | 45.9 | 46.3 | 46.7 | .2 |
| .4 | 43.1 | 43.5 | 43.9 | 44.3 | 44.7 | 45.1 | 45.6 | 46.0 | 46.5 | 46.9 | 47.3 | .4 |
| .6 | 43.7 | 44.1 | 44.5 | 44.9 | 45.3 | 45.7 | 46.2 | 46.6 | 47.0 | 47.5 | 47.9 | .6 |
| .8 | 44.3 | 44.7 | 45.1 | 45.5 | 45.9 | 46.3 | 46.8 | 47.2 | 47.6 | 48.1 | 48.5 | .8 |
| 83 | 44.9 | 45.3 | 45.7 | 46.1 | 46.5 | 46.9 | 47 4 | 47.8 | 48.2 | 48.7 | 49.1 | 83 |
| .2 | 45.5 | 45.9 | 46.3 | 46.7 | 47.1 | 47.5 | 48.0 | 48.4 | 48.8 | 49.3 | 49.7 | .2 |
| .4 | 46.2 | 46.6 | 47.0 | 47.4 | 47.8 | 48.2 | 48.7 | 49.1 | 49.5 | 49.9 | 50.3 | .4 |
| .6 | 46.8 | 47.2 | 47.6 | 48.0 | 48.4 | 48.8 | 49.3 | 49.7 | 50.1 | 50.6 | 51.0 | .6 |
| .8 | 47.5 | 47.9 | 48.3 | 48.7 | 49.1 | 49.5 | 50.0 | 50.4 | 50.8 | 51.2 | 51.6 | .8 |
| 84 | 48.1 | 48.5 | 48.9 | 49.3 | 49.7 | 50.1 | 50.6 | 51.0 | 51.4 | 51.8 | 52.2 | 84 |
| .2 | 48.8 | 49.2 | 49.6 | 50.0 | 50.4 | 50.8 | 51.3 | 51.7 | 52.1 | 52.5 | 52.9 | .2 |
| .4 | 49.5 | 49.9 | 50.3 | 50.7 | 51.1 | 51.5 | 52.0 | 52.4 | 52.8 | 53.1 | 53.5 | .4 |
| .6 | 50.3 | 50.7 | 51.1 | 51.5 | 51.8 | 52.2 | 52.6 | 53.0 | 53.4 | 53.8 | 54.2 | .6 |
| .8 | 51.0 | 51.4 | 51.8 | 52.2 | 52.5 | 52.9 | 53.3 | 53.7 | 54.1 | 54.4 | 54.8 | .8 |
| 85 | 51.7 | 52.1 | 52.5 | 52.9 | 53.2 | 53.6 | 54.0 | 54 4 | 54.8 | 55.1 | 55.5 | 85 |
| .2 | 52.4 | 52.8 | 53.2 | 53.6 | 53.9 | 54.3 | 54.7 | 55.1 | 55.5 | 55.8 | 56.2 | .2 |
| .4 | 53.2 | 53.6 | 53.9 | 54.3 | 54.7 | 55.1 | 55.4 | 55.8 | 56.2 | 56.5 | 56.9 | .4 |
| .6 | 53.9 | 54 3 | 54.7 | 55.1 | 55.4 | 55.8 | 56.2 | 56.6 | 56.9 | 57.2 | 57.6 | .6 |
| .8 | 54.7 | 55.1 | 55.4 | 55.8 | 56.2 | 56.6 | 56.9 | 57.3 | 57.6 | 57.9 | 58.3 | .8 |
| 86 | 55 4 | 55.8 | 56.1 | 56.5 | 56.9 | 57.3 | 57.6 | 58.0 | 58.3 | 58.6 | 59.0 | 86 |
| .2 | 56.2 | 56.6 | 56.9 | 57.2 | 57.6 | 58.0 | 58.3 | 58.7 | 59.0 | 59.3 | 59.7 | .2 |
| .4 | 57.0 | 57.3 | 57.6 | 58.0 | 58.4 | 58.7 | 59.0 | 59.4 | 59.7 | 60.0 | 60.4 | .4 |
| .6 | 57.7 | 58 1 | 58.4 | 58.7 | 59.1 | 59.5 | 59.8 | 60.1 | 60.4 | 60.7 | 61.1 | .6 |
| .8 | 58.5 | 58.8 | 59.1 | 59.5 | 59.9 | 60.2 | 60.5 | 60.8 | 61.1 | 61.4 | 61.8 | .8 |
| 87 | 59.3 | 59.6 | 59.9 | 60.2 | 60.6 | 60.9 | 61.2 | 61.5 | 61.8 | 62.1 | 62.5 | 87 |
| .2 | 60.1 | 60.4 | 60.7 | 61.0 | 61.3 | 61.6 | 61.9 | 62.2 | 62.5 | 62.8 | 63.2 | .2 |
| .4 | 60.9 | 61.2 | 61.5 | 61.7 | 62.1 | 62.4 | 62.6 | 62.9 | 63.2 | 63.5 | 63.9 | .4 |
| .6 | 61.6 | 61.9 | 62.2 | 62.5 | 62.8 | 63.1 | 63.4 | 63.7 | 64.0 | 64.3 | 64.6 | .6 |
| .8 | 62.4 | 62.7 | 63.0 | 63·2 | 63.6 | 63.9 | 64.1 | 64.4 | 64.7 | 65.0 | 65.3 | .8 |
| 88 | 63.2 | 63.5 | 63.8 | 64.0 | 64.3 | 64.6 | 64 8 | 65.1 | 65.4 | 65.7 | 66.0 | 88 |
| .2 | 64.0 | 64.2 | 64.5 | 64.7 | 65.0 | 65.3 | 65.5 | 65.8 | 66.1 | 66.4 | 66.7 | .2 |
| .4 | 64.7 | 65.0 | 65.3 | 65.5 | 65.7 | 66.0 | 66.2 | 66.5 | 66.8 | 67.1 | 67.4 | .4 |
| .6 | 65.5 | 65.7 | 66.0 | 66.2 | 66.5 | 66.8 | 67.0 | 67.2 | 67.5 | 67.8 | 68.0 | .6 |
| .8 | 66.2 | 66.5 | 66.8 | 67.0 | 67.2 | 67.5 | 67.7 | 67.9 | 68.2 | 68.5 | 68.7 | .8 |
| 89 | 67.0 | 67.2 | 67.5 | 67.7 | 67.9 | 68.2 | 68.4 | 68 6 | 68.9 | 69.2 | 69.4 | 89 |
| .2 | 67.7 | 67.9 | 68.2 | 68.4 | 68.6 | 68.9 | 69.1 | 69.3 | 69.6 | 69.9 | 70.1 | .2 |
| .4 | 68.5 | 68.7 | 68.9 | 69.1 | 69.3 | 69.6 | 69.8 | 70.0 | 70.3 | 70.6 | 70.8 | .4 |
| .6 | 69.2 | 69.4 | 69.7 | 69.9 | 70.1 | 70.3 | 70.5 | 70.7 | 70.9 | 71.2 | 71.4 | .6 |
| .8 | 70.0 | 70.2 | 70.4 | 70.6 | 70.8 | 71.0 | 71.2 | 71.4 | 71.6 | 71.9 | 72.1 | .8 |
| 90 | 70.7 | 70.9 | 71 1 | 71.3 | 71.5 | 71.7 | 71·9 | 72.1 | 72 3 | 72.6 | 72.8 | 90 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | |
| 90 | 70.7 | 70.9 | 71.1 | 71.3 | 71.5 | 71.7 | 71.9 | 72.1 | 72.3 | 72.6 | 72.8 | 90 |
| .2 | 71.4 | 71.6 | 71.8 | 72.0 | 72.2 | 72.4 | 72.6 | 72.8 | 73.0 | 73.3 | 73.5 | .2 |
| .4 | 72.1 | 72.3 | 72.5 | 72.7 | 72.9 | 73.1 | 73.3 | 73.5 | 73.7 | 73.9 | 74.1 | .4 |
| .6 | 72.9 | 73.1 | 73.2 | 73.4 | 73.6 | 73.8 | 73.9 | 74.1 | 74.3 | 74.6 | 74.8 | .6 |
| .8 | 73.6 | 73.8 | 73.9 | 74.1 | 74.3 | 74.5 | 74.6 | 74.8 | 75.0 | 75.2 | 75.4 | .8 |
| 91 | 74.3 | 74.5 | 74.6 | 74.8 | 75.0 | 75.2 | 75.3 | 75.5 | 75.7 | 75.9 | 76.1 | 91 |
| .2 | 75.0 | 75.2 | 75.3 | 75.5 | 75.7 | 75.8 | 76.0 | 76.1 | 76.3 | 76.5 | 76.7 | .2 |
| .4 | 75.7 | 75.8 | 76.0 | 76.1 | 76.3 | 76.5 | 76.6 | 76.8 | 77.0 | 77.2 | 77.3 | .4 |
| .6 | 76.3 | 76.5 | 76.6 | 76.8 | 77.0 | 77.1 | 77.3 | 77.4 | 77.6 | 77.8 | 78.0 | .6 |
| .8 | 77.0 | 77.1 | 77.3 | 77.4 | 77.6 | 77.8 | 77.9 | 78.1 | 78.3 | 78.5 | 78.6 | .8 |
| 92 | 77.7 | 77.8 | 78.0 | 78.1 | 78.3 | 78.4 | 78.6 | 78.7 | 78.9 | 79.1 | 79.2 | 92 |
| .2 | 78.4 | 78.5 | 78.6 | 78.7 | 78.9 | 79.0 | 79.2 | 79.3 | 79.5 | 79.7 | 79.8 | .2 |
| .4 | 79.0 | 79.1 | 79.3 | 79.4 | 79.6 | 79.7 | 79.8 | 80.0 | 80.1 | 80.3 | 80.4 | .4 |
| .6 | 79.7 | 79.8 | 79.9 | 80.0 | 80.2 | 80.3 | 80.5 | 80.6 | 80.8 | 80.9 | 81.1 | .6 |
| .8 | 80.3 | 80.4 | 80.6 | 80.7 | 80.9 | 81.0 | 81.1 | 81.3 | 81.4 | 81.5 | 81.7 | .8 |
| 93 | 81.0 | 81.1 | 81.2 | 81.3 | 81.5 | 81.6 | 81.7 | 81.9 | 82.0 | 82.1 | 82.3 | 93 |
| .2 | 81.6 | 81.7 | 81.8 | 81.9 | 82.1 | 82.2 | 82.3 | 82.5 | 82.6 | 82.7 | 82.9 | .2 |
| .4 | 82.2 | 82.3 | 82.4 | 82.5 | 82.7 | 82.8 | 82.9 | 83.1 | 83.2 | 83.3 | 83.5 | .4 |
| .6 | 82.9 | 83.0 | 83.1 | 83.2 | 83.3 | 83.4 | 83.5 | 83.6 | 83.8 | 83.9 | 84.0 | .6 |
| .8 | 83.5 | 83.6 | 83.7 | 83.8 | 83.9 | 84.0 | 84.1 | 84.2 | 84.4 | 84.5 | 84.6 | .8 |
| 94 | 84.1 | 84.2 | 84.3 | 84.4 | 84.5 | 84.6 | 84.7 | 84.8 | 85.0 | 85.1 | 85.2 | 94 |
| .2 | 84.7 | 84.8 | 84.9 | 85.0 | 85.1 | 85.2 | 85.3 | 85.4 | 85.6 | 85.7 | 85.8 | .2 |
| .4 | 85.3 | 85.4 | 85.5 | 85.6 | 85.7 | 85.8 | 85.9 | 86.0 | 86.1 | 86.2 | 86.3 | .4 |
| .6 | 85.9 | 86.0 | 86.0 | 86.1 | 86.2 | 86.3 | 86.4 | 86.5 | 86.7 | 86.8 | 86.9 | .6 |
| .8 | 86.5 | 86.6 | 86.6 | 86.7 | 86.8 | 86.9 | 87.0 | 87.1 | 87.2 | 87.3 | 87.4 | .8 |
| 95 | 87.1 | 87.2 | 87.2 | 87.3 | 87.4 | 87.5 | 87.6 | 87.7 | 87.8 | 87.9 | 88.0 | 95 |
| .2 | 87.7 | 87.8 | 87.8 | 87.9 | 88.0 | 88.1 | 88.2 | 88.3 | 88.3 | 88.4 | 88.5 | .2 |
| .4 | 88.2 | 88.3 | 88.3 | 88.4 | 88.5 | 88.6 | 88.7 | 88.8 | 88.9 | 89.0 | 89.1 | .4 |
| .6 | 88.8 | 88.9 | 88.9 | 89.0 | 89.1 | 89.2 | 89.3 | 89.4 | 89.4 | 89.5 | 89.6 | .6 |
| .8 | 89.3 | 89.4 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.9 | 90.0 | 90.1 | 90.2 | .8 |
| 96 | 89.9 | 90.0 | 90.0 | 90.1 | 90.2 | 90.3 | 90.4 | 90.5 | 90.5 | 90.6 | 90.7 | 96 |
| .2 | 90.4 | 90.5 | 90.5 | 90.6 | 90.7 | 90.8 | 90.9 | 91.0 | 91.0 | 91.1 | 91.2 | .2 |
| .4 | 91.0 | 91.1 | 91.1 | 91.2 | 91.3 | 91.3 | 91.4 | 91.5 | 91.6 | 91.7 | 91.7 | .4 |
| .6 | 91.5 | 91.6 | 91.6 | 91.7 | 91.8 | 91.9 | 92.0 | 92.1 | 92.1 | 92.2 | 92.3 | .6 |
| .8 | 92.1 | 92.2 | 92.2 | 92.3 | 92.4 | 92.4 | 92.5 | 92.6 | 92.7 | 92.8 | 92.8 | .8 |
| 97 | 92.6 | 92.7 | 92.7 | 92.8 | 92.9 | 92.9 | 93.0 | 93.1 | 93.2 | 93.3 | 93.3 | 97 |
| .2 | 93.1 | 93.2 | 93.2 | 93.3 | 93.4 | 93.4 | 93.5 | 93.6 | 93.7 | 93.8 | 93.8 | .2 |
| .4 | 93.6 | 93.7 | 93.7 | 93.8 | 93.9 | 93.9 | 94.0 | 94.1 | 94.2 | 94.3 | 94.3 | .4 |
| .6 | 94.2 | 94.2 | 94.3 | 94.4 | 94.4 | 94.5 | 94.5 | 94.6 | 94.7 | 94.8 | 94.9 | .6 |
| .8 | 94.7 | 94.7 | 94.8 | 94.9 | 94.9 | 95.0 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | .8 |
| 98 | 95.2 | 95.2 | 95.3 | 95.4 | 95.4 | 95.5 | 95.5 | 95.6 | 95.7 | 95.8 | 95.9 | 98 |
| .2 | 95.7 | 95.7 | 95.8 | 95.9 | 95.9 | 96.0 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | .2 |
| .4 | 96.2 | 96.2 | 96.3 | 96.4 | 96.4 | 96.5 | 96.5 | 96.6 | 96.7 | 96.8 | 96.8 | .4 |
| .6 | 96.6 | 96.7 | 96.7 | 96.8 | 96.8 | 96.9 | 97.0 | 97.0 | 97.1 | 97.2 | 97.3 | .6 |
| .8 | 97.1 | 97.2 | 97.2 | 97.3 | 97.3 | 97.4 | 97.5 | 97.5 | 97.6 | 97.7 | 97.7 | .8 |
| 99 | 97.6 | 97.7 | 97.7 | 97.8 | 97.8 | 97.9 | 98.0 | 98.0 | 98.1 | 98.2 | 98.2 | 99 |
| .2 | 98.1 | 98.2 | 98.2 | 98.3 | 98.3 | 98.4 | 98.5 | 98.5 | 98.6 | 98.7 | 98.7 | .2 |
| .4 | 98.6 | 98.6 | 98.7 | 98.7 | 98.8 | 98.8 | 98.9 | 98.9 | 99.0 | 99.1 | 99.1 | .4 |
| .6 | 99.0 | 99.1 | 99.1 | 99.2 | 99.2 | 99.3 | 99.4 | 99.4 | 99.5 | 99.6 | 99.6 | .6 |
| .8 | 99.5 | 99.5 | 99.6 | 99.6 | 99.7 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | .8 |
| 100 | 100.0 | 100.0 | — | — | — | — | — | — | — | — | — | 100 |
| INDICATION. | 50° | 51° | 52° | 53° | 54° | 55° | 56° | 57° | 58° | 59° | 60° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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# SIKES'S

## TABLE

OF THE

## CONCENTRATED STRENGTH

OF

# SPIRITS,

*(Continued,)*

## TEMPERATURE

60° TO 70°.

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 67.0 | 66.8 | 66.5 | 66.3 | 66.1 | 65.8 | 65.5 | 65.3 | 65.1 | 64.8 | 64.5 | 0 |
| .2 | 66.8 | 66.6 | 66.3 | 66.1 | 65.9 | 65.6 | 65.3 | 65.1 | 64.9 | 64.6 | 64.3 | .2 |
| .4 | 66.6 | 66.4 | 66.1 | 65.9 | 65.7 | 65.4 | 65.2 | 65.0 | 64.7 | 64.4 | 64.2 | .4 |
| .6 | 66.5 | 66.3 | 66.0 | 65.8 | 65.6 | 65.3 | 65.0 | 64.8 | 64.6 | 64.3 | 64.0 | .6 |
| .8 | 66.3 | 66.1 | 65.8 | 65.6 | 65.4 | 65.1 | 64.9 | 64.7 | 64.4 | 64.1 | 63.9 | .8 |
| 1 | 66.1 | 65.9 | 65.6 | 65.4 | 65.2 | 64.9 | 64.7 | 64.5 | 64.2 | 63.9 | 63.7 | 1 |
| .2 | 65.9 | 65.7 | 65.4 | 65.2 | 65.0 | 64.7 | 64.5 | 64.3 | 64.0 | 63.7 | 63.5 | .2 |
| .4 | 65.8 | 65.6 | 65.3 | 65.0 | 64.8 | 64.6 | 64.3 | 64.1 | 63.9 | 63.6 | 63.3 | .4 |
| .6 | 65.6 | 65.4 | 65.1 | 64.9 | 64.7 | 64.4 | 64.2 | 64.0 | 63.7 | 63.4 | 63.2 | .6 |
| .8 | 65.5 | 65.3 | 65.0 | 64.7 | 64.5 | 64.3 | 64.0 | 63.8 | 63.6 | 63.3 | 63.0 | .8 |
| 2 | 65.3 | 65.1 | 64.8 | 64.5 | 64.3 | 64.1 | 63.8 | 63.6 | 63.4 | 63.1 | 62.8 | 2 |
| .2 | 65.1 | 64.9 | 64.6 | 64.3 | 64.1 | 63.9 | 63.6 | 63.4 | 63.2 | 62.9 | 62.6 | .2 |
| .4 | 65.0 | 64.7 | 64.4 | 64.2 | 64.0 | 63.8 | 63.5 | 63.2 | 63.0 | 62.7 | 62.5 | .4 |
| .6 | 64.8 | 64.6 | 64.3 | 64.0 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | 62.6 | 62.3 | .6 |
| .8 | 64.7 | 64.4 | 64.1 | 63.9 | 63.7 | 63.5 | 63.2 | 62.9 | 62.7 | 62.4 | 62.2 | .8 |
| 3 | 64.5 | 64.2 | 63.9 | 63.7 | 63.5 | 63.3 | 63.0 | 62.7 | 62.5 | 62.2 | 62.0 | 3 |
| .2 | 64.3 | 64.0 | 63.7 | 63.5 | 63.3 | 63.1 | 62.8 | 62.5 | 62.3 | 62.0 | 61.8 | .2 |
| .4 | 64.1 | 63.9 | 63.6 | 63.4 | 63.2 | 62.9 | 62.6 | 62.3 | 62.1 | 61.9 | 61.6 | .4 |
| .6 | 64.0 | 63.7 | 63.4 | 63.2 | 63.0 | 62.8 | 62.5 | 62.2 | 62.0 | 61.7 | 61.5 | .6 |
| .8 | 63.8 | 63.6 | 63.3 | 63.1 | 62.9 | 62.6 | 62.3 | 62.0 | 61.8 | 61.6 | 61.3 | .8 |
| 4 | 63.6 | 63.4 | 63.1 | 62.9 | 62.7 | 62.4 | 62.1 | 61.8 | 61.6 | 61 4 | 61.1 | 4 |
| .2 | 63.4 | 63.2 | 62.9 | 62.7 | 62.5 | 62.2 | 61.9 | 61.6 | 61.4 | 61.2 | 60.9 | .2 |
| .4 | 63.2 | 63.0 | 62.8 | 62.5 | 62.3 | 62.0 | 61.7 | 61.5 | 61.3 | 61.0 | 60.7 | .4 |
| .6 | 63.1 | 62.9 | 62.6 | 62.4 | 62.2 | 61.9 | 61.6 | 61.3 | 61.1 | 60.9 | 60.6 | .6 |
| .8 | 62.9 | 62.7 | 62.5 | 62.2 | 62.0 | 61.7 | 61.4 | 61.2 | 61.0 | 60.7 | 60.4 | .8 |
| 5 | 62.7 | 62.5 | 62.3 | 62.0 | 61.8 | 61.5 | 61.2 | 61.0 | 60.8 | 60.5 | 60.2 | 5 |
| .2 | 62.5 | 62.3 | 62.1 | 61.8 | 61.6 | 61.3 | 61.0 | 60.8 | 60.6 | 60.3 | 60.0 | .2 |
| .4 | 62.3 | 62.1 | 61.9 | 61.6 | 61.4 | 61.1 | 60.9 | 60.6 | 60.4 | 60.1 | 59.8 | .4 |
| .6 | 62.2 | 62.0 | 61.8 | 61.5 | 61.3 | 61.0 | 60.7 | 60.5 | 60.3 | 60.0 | 59.7 | .6 |
| .8 | 62.0 | 61.8 | 61.6 | 61.3 | 61.1 | 60.8 | 60.6 | 60.3 | 60.1 | 59.8 | 59.5 | .8 |
| 6 | 61.8 | 61.6 | 61.4 | 61.1 | 60.9 | 60.6 | 60.4 | 60.1 | 59.9 | 59.6 | 59.3 | 6 |
| .2 | 61.6 | 61.4 | 61.2 | 60.9 | 60.7 | 60.4 | 60.2 | 59.9 | 59.7 | 59.4 | 59.1 | .2 |
| .4 | 61.4 | 61.2 | 61.0 | 60.7 | 60.5 | 60.2 | 60.0 | 59.7 | 59.5 | 59.2 | 58.9 | .4 |
| .6 | 61.3 | 61.1 | 60.9 | 60.6 | 60.4 | 60.1 | 59.9 | 59.6 | 59.4 | 59.1 | 58.8 | .6 |
| .8 | 61.1 | 60.9 | 60.7 | 60.4 | 60.2 | 59.9 | 59.7 | 59.4 | 59.2 | 58.9 | 58.6 | .8 |
| 7 | 60.9 | 60.7 | 60.5 | 60.2 | 60.0 | 59.7 | 59.5 | 59.2 | 59.0 | 58.7 | 58.4 | 7 |
| .2 | 60.7 | 60.5 | 60.3 | 60.0 | 59.8 | 59.5 | 59.3 | 59.0 | 58.8 | 58.5 | 58.2 | .2 |
| .4 | 60.5 | 60.3 | 60.1 | 59.8 | 59.6 | 59.3 | 59.1 | 58.8 | 58.6 | 58.3 | 58.0 | .4 |
| .6 | 60.4 | 60.2 | 60.0 | 59.7 | 59.5 | 59.2 | 59.0 | 58.7 | 58.5 | 58.2 | 57.9 | .6 |
| .8 | 60.2 | 60.0 | 59.8 | 59.5 | 59.3 | 59.0 | 58.8 | 58.5 | 58.3 | 58.0 | 57.7 | .8 |
| 8 | 60.0 | 59.8 | 59.6 | 59.3 | 59.1 | 58.8 | 58.6 | 58.3 | 58.1 | 57.8 | 57.5 | 8 |
| .2 | 59.8 | 59.6 | 59.4 | 59.1 | 58.9 | 58.6 | 58.4 | 58.1 | 57.9 | 57.6 | 57.3 | .2 |
| .4 | 59.6 | 59.4 | 59.2 | 59.0 | 58.7 | 58.4 | 58.2 | 57.9 | 57.7 | 57.4 | 57.1 | .4 |
| .6 | 59.5 | 59.3 | 59.1 | 58.8 | 58.6 | 58.3 | 58.0 | 57.8 | 57.5 | 57.3 | 57.0 | .6 |
| .8 | 59.3 | 59.1 | 58.9 | 58.7 | 58.4 | 58.1 | 57.8 | 57.6 | 57.3 | 57.1 | 56.8 | .8 |
| 9 | 59.1 | 58.9 | 58.7 | 58.5 | 58.2 | 57.9 | 57.6 | 57.4 | 57.1 | 56.9 | 56.6 | 9 |
| .2 | 58.9 | 58.7 | 58.5 | 58.3 | 58.0 | 57.7 | 57.4 | 57.2 | 56.9 | 56.7 | 56.4 | .2 |
| .4 | 58.7 | 58.5 | 58.3 | 58.1 | 57.8 | 57.5 | 57.2 | 57.0 | 56.7 | 56.5 | 56.2 | .4 |
| .6 | 58.6 | 58.4 | 58.2 | 57.9 | 57.7 | 57.4 | 57.1 | 56.8 | 56.6 | 56.3 | 56.0 | .6 |
| .8 | 58.4 | 58.2 | 58.0 | 57.7 | 57.5 | 57.2 | 56.9 | 56.6 | 56.4 | 56.1 | 55.8 | .8 |
| 10 | 58.2 | 58.0 | 57.8 | 57.5 | 57.3 | 57.0 | 56.7 | 56.4 | 56.2 | 55.9 | 55.6 | 10 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
| 10 | 58.2 | 58.0 | 57.8 | 57.5 | 57.3 | 57.0 | 56.7 | 56.4 | 56.2 | 55.9 | 55.6 |
| .2 | 58.0 | 57.8 | 57.6 | 57.3 | 57.1 | 56.8 | 56.5 | 56.2 | 56.0 | 55.7 | 55.4 |
| .4 | 57.8 | 57.6 | 57.4 | 57.1 | 56.9 | 56.6 | 56.3 | 56.0 | 55.8 | 55.5 | 55.2 |
| .6 | 57.7 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | 56.2 | 55.9 | 55.7 | 55.4 | 55.1 |
| .8 | 57.5 | 57.3 | 57.0 | 56.8 | 56.6 | 56.3 | 56.0 | 55.7 | 55.5 | 55.2 | 54.9 |
| 11 | 57.3 | 57.1 | 56.8 | 56.6 | 56.4 | 56.1 | 55.8 | 55.5 | 55 3 | 55.0 | 54.7 |
| .2 | 57.1 | 56.9 | 56.6 | 56.4 | 56.2 | 55.9 | 55.6 | 55.3 | 55.1 | 54.8 | 54.5 |
| .4 | 56.9 | 56.7 | 56.4 | 56.2 | 56.0 | 55.7 | 55.4 | 55.1 | 54.9 | 54.6 | 54.3 |
| .6 | 56.8 | 56.6 | 56.3 | 56.0 | 55.8 | 55.5 | 55.3 | 55.0 | 54·8 | 54.5 | 54 2 |
| .8 | 56.6 | 56.4 | 56.1 | 55.8 | 55.6 | 55.3 | 55.1 | 54.8 | 54.6 | 54.3 | 54.0 |
| 12 | 56.4 | 56.2 | 55.9 | 55.6 | 55.4 | 55.1 | 54.9 | 54.6 | 54.4 | 54.1 | 53 8 |
| .2 | 56.2 | 56.0 | 55.7 | 55.4 | 55.2 | 54.9 | 54.7 | 54.4 | 54.2 | 53.9 | 53.6 |
| .4 | 56.0 | 55.8 | 55.5 | 55.2 | 55.0 | 54.7 | 54.5 | 54.2 | 54.0 | 53.7 | 53.4 |
| .6 | 55.9 | 55.7 | 55.4 | 55.1 | 54.9 | 54.6 | 54.3 | 54.1 | 53.8 | 53.5 | 53.2 |
| .8 | 55.7 | 55.5 | 55.2 | 54.9 | 54.7 | 54.4 | 54.1 | 53.9 | 53.6 | 53.3 | 53.0 |
| 13 | 55.5 | 55 3 | 55.0 | 54.7 | 54.5 | 54.2 | 53.9 | 53.7 | 53.4 | 53.1 | 52.8 |
| .2 | 56.3 | 55.1 | 54.8 | 54.5 | 54.3 | 54.0 | 53.7 | 53.5 | 53.2 | 52.9 | 52.6 |
| .4 | 55.1 | 54.9 | 54.6 | 54.3 | 54.1 | 53.8 | 53.5 | 53.3 | 53.0 | 52.7 | 52.4 |
| .6 | 55.0 | 54.7 | 54.4 | 54.2 | 54.0 | 53.7 | 53.4 | 53.2 | 52.9 | 52.6 | 52.3 |
| .8 | 54.8 | 54.5 | 54.2 | 54.0 | 53.8 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | 52.1 |
| 14 | 54.6 | 54.3 | 54.0 | 53.8 | 53.6 | 53.3 | 53 0 | 52.8 | 52.5 | 52.2 | 51 9 |
| .2 | 54.4 | 54.1 | 53.8 | 53.6 | 53 4 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 51.7 |
| .4 | 54.2 | 53.9 | 53.6 | 53.4 | 53.2 | 52 9 | 52.6 | 52.4 | 52.1 | 51.8 | 51.5 |
| .6 | 54.1 | 53.8 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 |
| .8 | 53.9 | 53.6 | 53.3 | 53.0 | 52.8 | 52.5 | 52.2 | 52.0 | 51.7 | 51.4 | 51.2 |
| 15 | 53.7 | 53.4 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 51.8 | 51.5 | 51.2 | 51.0 |
| .2 | 53.5 | 53.2 | 52.9 | 52.6 | 52.4 | 52.1 | 51.8 | 51.6 | 51.3 | 51.0 | 50.8 |
| .4 | 53.3 | 53.0 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 | 51.1 | 50.8 | 50.6 |
| .6 | 53.1 | 52.8 | 52.5 | 52.3 | 52.0 | 51.7 | 51.4 | 51.2 | 50.9 | 50.6 | 50.4 |
| .8 | 52.9 | 52.6 | 52.3 | 52.1 | 51 8 | 51.5 | 51.2 | 51.0 | 50.7 | 50.4 | 50.2 |
| 16 | 52.7 | 52.4 | 52.1 | 51 9 | 51.6 | 51.3 | 51 0 | 50.8 | 50.5 | 50.2 | 50.0 |
| .2 | 52.5 | 52.2 | 51.9 | 51.7 | 51.4 | 51.1 | 50.8 | 50.6 | 50.3 | 50.0 | 49.8 |
| .4 | 52.3 | 52.0 | 51.7 | 51.5 | 51.2 | 50.9 | 50.6 | 50.4 | 50.1 | 49.8 | 49.6 |
| .6 | 52.1 | 51.8 | 51.5 | 51.3 | 51.0 | 50.7 | 50.5 | 50.2 | 49.9 | 49.6 | 49.4 |
| .8 | 51.9 | 51.6 | 51.3 | 51.1 | 50.8 | 50.5 | 50.3 | 50.0 | 49.7 | 49.4 | 49.2 |
| 17 | 51.7 | 51.4 | 51.1 | 50.9 | 50.6 | 50 3 | 50.1 | 49.8 | 49.5 | 49.2 | 49.0 |
| .2 | 51.5 | 51.2 | 50.9 | 50.7 | 50.4 | 50.1 | 49.9 | 49.6 | 49.3 | 49.0 | 48.8 |
| .4 | 51.3 | 51.0 | 50.7 | 50.5 | 50.2 | 49.9 | 49.7 | 49.4 | 49.1 | 48.8 | 48.6 |
| .6 | 51.1 | 50.8 | 50.5 | 50.3 | 50.0 | 49.7 | 49.5 | 49.2 | 48.9 | 48.6 | 48.3 |
| .8 | 50.9 | 50.6 | 50.3 | 50.1 | 49.8 | 49.5 | 49.3 | 49.0 | 48.7 | 48.4 | 48.1 |
| 18 | 50.7 | 50.4 | 50.1 | 49.9 | 49.6 | 49.3 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 |
| .2 | 50.5 | 50.2 | 49.9 | 49.7 | 49.4 | 49.1 | 48.9 | 48.6 | 48.3 | 48.0 | 47.7 |
| .4 | 50.3 | 50.0 | 49 7 | 49.5 | 49.2 | 48.9 | 48.7 | 48.4 | 48.1 | 47.8 | 47 5 |
| .6 | 50.1 | 49.8 | 49.5 | 49.3 | 49.0 | 48.7 | 48.4 | 48.1 | 47.9 | 47.6 | 47.3 |
| .8 | 49.9 | 49.6 | 49.3 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | 47.4 | 47.1 |
| 19 | 49.7 | 49.4 | 49.1 | 48.9 | 48.6 | 48.3 | 48 0 | 47.7 | 47.5 | 47.2 | 46.9 |
| .2 | 49.5 | 49.2 | 48.9 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | 46.7 |
| .4 | 49.3 | 49.0 | 48.7 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 |
| .6 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | 46.3 |
| .8 | 48.9 | 48.6 | 48.3 | 48.0 | 47.7 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 |
| 20 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.3 | 47 0 | 46.7 | 46.5 | 46.2 | 45.9 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | |



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TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.

| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.3 | 47.0 | 46.7 | 46.5 | 46.2 | 45.9 | 20 |
| .2 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 | 46.3 | 46.0 | 45.7 | .2 |
| .4 | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.9 | 46.6 | 46.3 | 46.1 | 45.8 | 45.5 | .4 |
| .6 | 48.0 | 47.8 | 47.5 | 47.2 | 46.9 | 46.7 | 46.4 | 46.1 | 45.8 | 45.5 | 45.2 | .6 |
| .8 | 47.8 | 47.6 | 47.3 | 47.0 | 46.7 | 46.5 | 46.2 | 45.9 | 45.6 | 45.3 | 45.0 | .8 |
| 21 | 47.6 | 47.3 | 47.1 | 46.8 | 46.5 | 46.3 | 46.0 | 45.7 | 45.5 | 45.1 | 44.8 | 21 |
| .2 | 47.4 | 47.2 | 46.9 | 46.6 | 46.3 | 46.1 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | .2 |
| .4 | 47.2 | 47.0 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | .4 |
| .6 | 47.0 | 46.8 | 46.5 | 46.2 | 45.9 | 45.7 | 45.3 | 45.0 | 44.8 | 44.5 | 44.2 | .6 |
| .8 | 46.8 | 46.6 | 46.3 | 46.0 | 45.7 | 45.5 | 45.1 | 44.8 | 44.6 | 44.3 | 44.0 | .8 |
| 22 | 46.6 | 46.4 | 46.1 | 45.8 | 45.5 | 45.3 | 44.9 | 44.6 | 44.4 | 44.1 | 43.8 | 22 |
| .2 | 46.4 | 46.2 | 45.9 | 45.6 | 45.3 | 45.1 | 44.7 | 44.4 | 44.2 | 43.9 | 43.6 | .2 |
| .4 | 46.2 | 46.0 | 45.7 | 45.4 | 45.1 | 44.9 | 44.5 | 44.2 | 44.0 | 43.7 | 43.4 | .4 |
| .6 | 46.0 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | .6 |
| .8 | 45.8 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | .8 |
| 23 | 45.6 | 45.4 | 45.1 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 23 |
| .2 | 45.4 | 45.2 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | 42.5 | .2 |
| .4 | 45.2 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | .4 |
| .6 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | .6 |
| .8 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | .8 |
| 24 | 44.6 | 44.3 | 44.0 | 43.7 | 43 4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 24 |
| .2 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.7 | 41.4 | .2 |
| .4 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | .4 |
| .6 | 43.9 | 43.6 | 43.3 | 43·0 | 42.7 | 42.4 | 42.2 | 41.9 | 41.5 | 41.3 | 41.0 | .6 |
| .8 | 43.7 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 42.0 | 41.7 | 41.3 | 41.1 | 41.8 | .8 |
| 25 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.8 | 41.5 | 41.1 | 40.9 | 40.6 | 25 |
| .2 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.6 | 41.3 | 40.9 | 40.7 | 40.4 | .2 |
| .4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 41.4 | 41.1 | 40.7 | 40.5 | 40.2 | .4 |
| .6 | 42.8 | 42.5 | 42.2 | 42.0 | 41.6 | 41.3 | 41.1 | 40.8 | 40.5 | 40.2 | 39.9 | .6 |
| .8 | 42.6 | 42.3 | 42.0 | 41.8 | 41.4 | 41.1 | 40.9 | 40.6 | 40.3 | 40.0 | 39.7 | .8 |
| 26 | 42.4 | 42.1 | 41.8 | 41.6 | 41.2 | 40.9 | 40.7 | 40.4 | 40.1 | 39.8 | 39.5 | 26 |
| .2 | 42.2 | 41.9 | 41.6 | 41.4 | 41.0 | 40.7 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | .2 |
| .4 | 42.0 | 41.7 | 41.4 | 41.2 | 40.8 | 40.5 | 40.3 | 40.0 | 39.7 | 39.3 | 39.0 | .4 |
| .6 | 41.7 | 41.4 | 41.2 | 40.9 | 40.6 | 40.3 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | .6 |
| .8 | 41.5 | 41.2 | 41.0 | 40.7 | 40.4 | 40.1 | 39.8 | 39.5 | 39.2 | 38.8 | 38.5 | .8 |
| 27 | 41.3 | 41.0 | 40.8 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | 38.6 | 38.3 | 27 |
| .2 | 41.1 | 40.8 | 40.6 | 40.3 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | 38.4 | 38.1 | .2 |
| .4 | 40.9 | 40.6 | 40.4 | 40.1 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | .4 |
| .6 | 40.6 | 40.3 | 40.1 | 39.8 | 39.5 | 29.2 | 38.9 | 38.6 | 38.3 | 37.9 | 37.6 | .6 |
| .8 | 40.4 | 40.1 | 39.9 | 39.6 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | .8 |
| 28 | 40.2 | 40.0 | 39.7 | 39.4 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 28 |
| .2 | 40.0 | 39.7 | 39.5 | 39.2 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | .2 |
| .4 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | .4 |
| .6 | 39.5 | 39.2 | 39.0 | 38.7 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | .6 |
| .8 | 39.3 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | .8 |
| 29 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 29 |
| .2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | .2 |
| .4 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.6 | .4 |
| .6 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.7 | 35.4 | .6 |
| .8 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | 35.1 | .8 |
| 30 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 34.9 | 30 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | |
| 30 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 34.9 | 30 |
| .2 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.7 | 35.4 | 35.1 | 34.7 | .2 |
| .4 | 37.6 | 37.3 | 36.9 | 36.7 | 36.4 | 36.0 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | .4 |
| .6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34.6 | 34.2 | .6 |
| .8 | 37.1 | 36.8 | 36.4 | 36.2 | 35.9 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | .8 |
| 31 | 36.9 | 36.6 | 36.2 | 36.0 | 35.7 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 31 |
| .2 | 36.7 | 36.4 | 36.0 | 35.8 | 35.5 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | .2 |
| .4 | 36.4 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.3 | .4 |
| .6 | 36.2 | 35.9 | 35.5 | 35.3 | 35.0 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | .6 |
| .8 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.8 | .8 |
| 32 | 35.7 | 35.4 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.6 | 32 |
| .2 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.8 | 32.4 | .2 |
| .4 | 35.2 | 34.9 | 34.6 | 34.3 | 34.1 | 33.7 | 33.4 | 33.1 | 32.8 | 32.5 | 32.2 | .4 |
| .6 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.6 | 32.3 | 31.9 | .6 |
| .8 | 34.7 | 34.4 | 34.1 | 33.8 | 33.6 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | .8 |
| 33 | 34.5 | 34.2 | 33.9 | 33.6 | 33.4 | 33.0 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 33 |
| .2 | 34.3 | 34.0 | 33.7 | 33.4 | 33.2 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | .2 |
| .4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.5 | 32.2 | 31.9 | 31.6 | 31.3 | 31.0 | .4 |
| .6 | 33.8 | 33.5 | 33.2 | 32.9 | 32.7 | 32.3 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | .6 |
| .8 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.0 | 31.7 | 31.4 | 31.1 | 30.8 | 30.5 | .8 |
| 34 | 33.4 | 33.1 | 32.8 | 32.5 | 32.2 | 31.8 | 31.5 | 31.2 | 30.9 | 30 6 | 30.3 | 34 |
| .2 | 33.2 | 32.9 | 32.6 | 32.3 | 32.0 | 31.6 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | .2 |
| .4 | 32.9 | 32.6 | 32.3 | 32.0 | 31.7 | 31.3 | 31.0 | 30.7 | 30.4 | 30.1 | 29.8 | .4 |
| .6 | 32.7 | 32.4 | 32.1 | 31.8 | 31.5 | 31.1 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | .6 |
| .8 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.8 | 30.5 | 30.2 | 29.9 | 29.6 | 29.3 | .8 |
| 35 | 32.2 | 31.9 | 31.6 | 31.3 | 31.0 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.1 | 35 |
| .2 | 32.0 | 31.7 | 31.4 | 31.1 | 30.7 | 30.4 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | .2 |
| .4 | 31.7 | 31.4 | 31.1 | 30.8 | 30.5 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | .4 |
| .6 | 31.5 | 31.2 | 30.9 | 30.6 | 30.2 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | .6 |
| .8 | 31.2 | 30.9 | 30.6 | 30.3 | 30.0 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | .8 |
| 36 | 31.0 | 30.7 | 30.4 | 30.1 | 29.7 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 36 |
| .2 | 30.8 | 30.4 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 27.9 | 27.6 | .2 |
| .4 | 30.5 | 30.2 | 29.9 | 29.6 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | .4 |
| .6 | 30.3 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.4 | 27.1 | .6 |
| .8 | 30.0 | 29.7 | 29.4 | 29.1 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | .8 |
| 37 | 29.8 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 26.9 | 26.6 | 37 |
| .2 | 29.5 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.6 | 27.3 | 27.0 | 26.7 | 26.4 | .2 |
| .4 | 29.3 | 28.9 | 28.6 | 28.3 | 28.0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.4 | 26.1 | .4 |
| .6 | 29.0 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.1 | 26.8 | 26.5 | 26.2 | 25.9 | .6 |
| .8 | 28.8 | 28.4 | 28.1 | 27.8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 25.9 | 25.6 | .8 |
| 38 | 28.5 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 38 |
| .2 | 28.3 | 28.0 | 27.7 | 27.3 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.4 | 25.1 | .2 |
| .4 | 28 0 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.1 | 25.8 | 25.5 | 25.2 | 24.9 | .4 |
| .6 | 27.8 | 27.5 | 27.2 | 26.8 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 24.9 | 24.6 | .6 |
| .8 | 27.5 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.6 | 25.3 | 25.0 | 24.7 | 24.4 | .8 |
| 39 | 27 3 | 27.0 | 26.7 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.4 | 24.1 | 39 |
| .2 | 27.0 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.1 | 24.8 | 24.5 | 24.1 | 23.8 | .2 |
| .4 | 26.8 | 26.5 | 26.2 | 25.8 | 25.5 | 25 2 | 24.9 | 24.6 | 24.3 | 23.9 | 23.6 | .4 |
| .6 | 26.5 | 26.2 | 25.9 | 25.6 | 25.3 | 25.0 | 24.6 | 24.3 | 24.0 | 23.6 | 23.3 | .6 |
| .8 | 26.3 | 26.0 | 25.7 | 25.3 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.4 | 23.1 | .8 |
| 40 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.1 | 23.8 | 23.5 | 23.1 | 22.8 | 40 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | |
| 40 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.1 | 23.8 | 23.5 | 23.1 | 22.8 | 40 |
| .2 | 25.8 | 25.5 | 25.2 | 24.8 | 24.5 | 24.2 | 23.8 | 23.5 | 23.2 | 22.8 | 22.5 | .2 |
| .4 | 25.5 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | 23.6 | 23.3 | 23.0 | 22.6 | 22.3 | .4 |
| .6 | 25.3 | 25.0 | 24.7 | 24.3 | 24.0 | 23.7 | 23.3 | 23.0 | 22.7 | 22.3 | 22.0 | .6 |
| .8 | 25.0 | 24.7 | 24.4 | 24.1 | 23.8 | 23.5 | 23.1 | 22.8 | 22.5 | 22.1 | 21.8 | .8 |
| 41 | 24.8 | 24.5 | 24.2 | 23.8 | 23.5 | 23.2 | 22.8 | 22.5 | 22.2 | 21.8 | 21.5 | 41 |
| .2 | 24.5 | 24.2 | 23.9 | 23.6 | 23.2 | 22.9 | 22.5 | 22.2 | 21.9 | 21.6 | 21.2 | .2 |
| .4 | 24.3 | 24.0 | 23.7 | 23.3 | 23.0 | 22.7 | 22.3 | 22.0 | 21.7 | 21.3 | 21.0 | .4 |
| .6 | 24.0 | 23.7 | 23.4 | 23.1 | 22.7 | 22.4 | 22.0 | 21.7 | 21.4 | 21.1 | 20.7 | .6 |
| .8 | 23.8 | 23.5 | 23.2 | 22.8 | 22.5 | 22.2 | 21.8 | 21.5 | 21.2 | 20.8 | 20.5 | .8 |
| 42 | 23.5 | 23.2 | 22.9 | 22.6 | 22.2 | 21.9 | 21.5 | 21.2 | 20.9 | 20.6 | 20.2 | 42 |
| .2 | 23.2 | 22.9 | 22.6 | 23.5 | 22.0 | 21.6 | 21.2 | 20.9 | 20.6 | 20.3 | 19.9 | .2 |
| .4 | 23.0 | 22.7 | 22.4 | 21.2 | 21.7 | 21.4 | 21.0 | 20.7 | 20.4 | 20.1 | 19.7 | .4 |
| .6 | 22.7 | 22.4 | 22.1 | 28.0 | 21.5 | 21.1 | 20.7 | 20.4 | 20.1 | 19.8 | 19.4 | .6 |
| .8 | 22.5 | 22.2 | 21.9 | 26.7 | 21.2 | 20.9 | 20.5 | 20.2 | 19.9 | 19.6 | 19.2 | .8 |
| 43 | 22.2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.6 | 20.2 | 19.9 | 19.6 | 19.3 | 18.9 | 43 |
| .2 | 21.9 | 21.6 | 21.3 | 21.0 | 20.7 | 20.3 | 19.9 | 19.6 | 19.3 | 19.0 | 18.6 | .2 |
| .4 | 21.7 | 21.4 | 21.1 | 20.8 | 20.5 | 20.1 | 19.7 | 19.4 | 19.1 | 18.8 | 18.4 | .4 |
| .6 | 21.4 | 21.1 | 20.8 | 20.5 | 20.2 | 19.8 | 19.4 | 19.1 | 18.8 | 18.5 | 18.1 | .6 |
| .8 | 21.2 | 20.9 | 20.6 | 20.3 | 20.0 | 19.6 | 19.2 | 18.9 | 18.6 | 18.3 | 17.9 | .8 |
| 44 | 20.9 | 20.6 | 20.3 | 20.0 | 19.7 | 19.3 | 18.9 | 18.6 | 18.3 | 18.0 | 17.6 | 44 |
| .2 | 20.6 | 20.3 | 20.0 | 19.7 | 19.4 | 19.0 | 18.6 | 18.3 | 18.0 | 17.7 | 17.3 | .2 |
| .4 | 20.4 | 20.1 | 19.8 | 19.5 | 19.2 | 18.8 | 18.4 | 18.1 | 17.7 | 17.4 | 17.1 | .4 |
| .6 | 20.1 | 19.8 | 19.5 | 19.2 | 18.9 | 18.5 | 18.1 | 17.8 | 17.5 | 17.2 | 16.8 | .6 |
| .8 | 19.9 | 19.6 | 19.3 | 19.0 | 18.7 | 18.3 | 17.9 | 17.6 | 17.2 | 16.9 | 16.6 | .8 |
| 45 | 19.6 | 19.3 | 19.0 | 18.7 | 18.4 | 18.0 | 17.6 | 17.3 | 16.9 | 16.6 | 16.3 | 45 |
| .2 | 19.3 | 19.0 | 18.7 | 18.4 | 18.1 | 17.7 | 17.3 | 17.0 | 16.6 | 16.3 | 16.0 | .2 |
| .4 | 19.1 | 18.8 | 18.4 | 18.1 | 17.8 | 17.4 | 17.1 | 16.8 | 16.4 | 16.1 | 15.7 | .4 |
| .6 | 18.8 | 18.5 | 18.2 | 17.9 | 17.6 | 17.2 | 16.8 | 16.5 | 16.1 | 15.8 | 15.5 | .6 |
| .8 | 18.6 | 18.3 | 17.9 | 17.6 | 17.3 | 16.9 | 16.6 | 16.3 | 15.9 | 15.6 | 15.2 | .8 |
| 46 | 18.3 | 18.0 | 17.6 | 17.3 | 17.0 | 16.6 | 16.3 | 16.0 | 15.6 | 15.3 | 14.9 | 46 |
| .2 | 18.0 | 17.7 | 17.3 | 17.0 | 16.7 | 16.3 | 16.0 | 15.7 | 15.3 | 15.0 | 14.6 | .2 |
| .4 | 17.7 | 17.4 | 17.1 | 16.7 | 16.4 | 16.1 | 15.7 | 15.4 | 15.0 | 14.7 | 14.4 | .4 |
| .6 | 17.5 | 17.2 | 16.8 | 16.5 | 16.2 | 15.8 | 15.5 | 15.2 | 14.8 | 14.5 | 14.1 | .6 |
| .8 | 17.2 | 16.9 | 16.6 | 16.2 | 15.9 | 15.6 | 15.2 | 14.9 | 14.5 | 14.2 | 13.9 | .8 |
| 47 | 16.9 | 16.6 | 16.3 | 15.9 | 15.6 | 15.3 | 14.9 | 14.6 | 14.2 | 13.9 | 13.6 | 47 |
| .2 | 16.6 | 16.3 | 16.0 | 15.6 | 15.3 | 15.0 | 14.6 | 14.3 | 13.9 | 13.6 | 13.3 | .2 |
| .4 | 16.4 | 16.0 | 15.7 | 15.4 | 15.0 | 14.7 | 14.3 | 14.0 | 13.6 | 13.3 | 13.0 | .4 |
| .6 | 16.1 | 15.8 | 15.5 | 15.1 | 14.8 | 14.5 | 14.1 | 13.8 | 13.4 | 13.1 | 12.8 | .6 |
| .8 | 15.9 | 15.5 | 15.2 | 14.9 | 14.5 | 14·2 | 13.8 | 13.5 | 13.1 | 12.8 | 12.5 | .8 |
| 48 | 15.6 | 15.2 | 14.9 | 14.6 | 14.2 | 13.9 | 13.5 | 13.2 | 12.8 | 12.5 | 12.2 | 48 |
| .2 | 15.3 | 14.9 | 14.6 | 14.3 | 13.9 | 13.6 | 13.2 | 12.9 | 12.5 | 12.2 | 11.9 | .2 |
| .4 | 15.0 | 14.7 | 14.3 | 14.0 | 13.6 | 13.3 | 13.0 | 12.6 | 12.3 | 11.9 | 11.6 | .4 |
| .6 | 14.8 | 14.4 | 14.1 | 13.8 | 13.4 | 13.1 | 12.7 | 12.4 | 12.0 | 11.7 | 11.4 | .6 |
| .8 | 14.5 | 14.2 | 13.8 | 13.5 | 13.1 | 12.8 | 12.5 | 12.1 | 11.8 | 11.4 | 11.1 | .8 |
| 49 | 14.2 | 13.9 | 13.5 | 13.2 | 12.8 | 12.5 | 12.2 | 11.8 | 11.5 | 11.1 | 10.8 | 49 |
| .2 | 13.9 | 13.6 | 13.2 | 12.9 | 12.5 | 12.2 | 11.9 | 11.5 | 11.2 | 10.8 | 10.5 | .2 |
| .4 | 13.6 | 13.3 | 12.9 | 12.6 | 12.2 | 11.9 | 11.6 | 11.2 | 10.9 | 10.5 | 10.2 | .4 |
| .6 | 13.4 | 13.1 | 12.7 | 12.4 | 12.0 | 11.7 | 11.4 | 11.0 | 10.7 | 10.3 | 10.0 | .6 |
| .8 | 13.1 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.1 | 10.7 | 10.4 | 10.0 | 9.7 | .8 |
| 50 | 12.8 | 12.5 | 12.1 | 11.8 | 11.4 | 11.1 | 10.8 | 10.4 | 10.1 | 9.7 | 9.4 | 50 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 12.8 | 12.5 | 12.1 | 11.8 | 11.4 | 11.1 | 10.8 | 10.4 | 10.1 | 9.7 | 9.4 | 50 |
| .2 | 12.5 | 12.2 | 11.8 | 11.5 | 11.1 | 10.8 | 10.5 | 10.1 | 9.8 | 9.4 | 9.1 | .2 |
| .4 | 12.2 | 11.9 | 11.5 | 11.2 | 10.8 | 10.5 | 10.2 | 9.8 | 9.5 | 9.1 | 8.8 | .4 |
| .6 | 12.0 | 11.6 | 11.3 | 11.0 | 10.6 | 10.3 | 9.9 | 9.6 | 9.3 | 8.9 | 8.6 | .6 |
| .8 | 11.7 | 11.3 | 11.0 | 10.7 | 10.3 | 10.0 | 9.6 | 9.3 | 9.0 | 8.6 | 8.3 | .8 |
| 51 | 11.4 | 11.0 | 10.7 | 10.4 | 10.0 | 9.7 | 9.3 | 9.0 | 8.7 | 8.3 | 8.0 | 51 |
| .2 | 11.1 | 10.7 | 10.4 | 10.1 | 9.7 | 9.4 | 9.0 | 8.7 | 8.4 | 8.0 | 7.7 | .2 |
| .4 | 10.8 | 10.4 | 10.1 | 9.8 | 9.4 | 9.1 | 8.7 | 8.4 | 8.1 | 7.7 | 7.4 | .4 |
| .6 | 10.6 | 10.2 | 9.9 | 9.6 | 9.2 | 8.9 | 8.5 | 8.2 | 7.9 | 7.5 | 7.2 | .6 |
| .8 | 10.3 | 9.9 | 9.6 | 9.3 | 8.9 | 8.6 | 8.2 | 7.9 | 7.6 | 7.2 | 6.9 | .8 |
| 52 | 10.0 | 9.6 | 9.3 | 9.0 | 8.7 | 8.3 | 7.9 | 7.6 | 7.3 | 6.9 | 6.6 | 52 |
| .2 | 9.7 | 9.3 | 9.0 | 8.7 | 8.3 | 8.0 | 7.6 | 7.3 | 7.0 | 6.6 | 6.3 | .2 |
| .4 | 9.4 | 9.0 | 8.7 | 8.4 | 8.0 | 7.7 | 7.3 | 7.0 | 6.7 | 6.3 | 6.0 | .4 |
| .6 | 9.2 | 8.8 | 8.5 | 8.1 | 7.8 | 7.5 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | .6 |
| .8 | 8.9 | 8.5 | 8.2 | 7.8 | 7.5 | 7.2 | 6.8 | 6.5 | 6.1 | 5.7 | 5.4 | .8 |
| 53 | 8.6 | 8.2 | 7.9 | 7.5 | 7.2 | 6.9 | 6.5 | 6.2 | 5.8 | 5.4 | 5.1 | 53 |
| .2 | 8.3 | 7.9 | 7.6 | 7.2 | 6.9 | 6.6 | 6.2 | 5.9 | 5.5 | 5.1 | 4.8 | .2 |
| .4 | 8.0 | 7.6 | 7.3 | 6.9 | 6.6 | 6.3 | 5.9 | 5.6 | 5.2 | 4.8 | 4.5 | .4 |
| .6 | 7.7 | 7.4 | 7.1 | 6.7 | 6.3 | 6.0 | 5.7 | 5.3 | 5.0 | 4.6 | 4.2 | .6 |
| .8 | 7.4 | 7.1 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.0 | 4.7 | 4.3 | 3.9 | .8 |
| 54 | 7.1 | 6.8 | 6.5 | 6.1 | 5.7 | 5.4 | 5.1 | 4.7 | 4.4 | 4.0 | 3.6 | 54 |
| .2 | 6.8 | 6.5 | 6.2 | 5.8 | 5.4 | 5.1 | 4.8 | 4.4 | 4.1 | 3.7 | 3.3 | .2 |
| .4 | 6.5 | 6.2 | 5.9 | 5.5 | 5.1 | 4.8 | 4.5 | 4.1 | 3.8 | 3.4 | 3.0 | .4 |
| .6 | 6.2 | 5.9 | 5.6 | 5.3 | 4.9 | 4.5 | 4.2 | 3.9 | 3.5 | 3.2 | 2.8 | .6 |
| .8 | 5.9 | 5.6 | 5.3 | 5.0 | 4.6 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 2.5 | .8 |
| 55 | 5.6 | 5.3 | 5.0 | 4.7 | 4.3 | 3.9 | 3.6 | 3.3 | 2.9 | 2.6 | 2.2 | 55 |
| .2 | 5.3 | 5.0 | 4.7 | 4.4 | 4.0 | 3.6 | 3.3 | 3.0 | 2.6 | 2.3 | 1.9 | .2 |
| .4 | 5.0 | 4.7 | 4.4 | 4.1 | 3.7 | 3.3 | 3.0 | 2.7 | 2.3 | 2.0 | 1.6 | .4 |
| .6 | 4.8 | 4.4 | 4.1 | 3.8 | 3.4 | 3.1 | 2.7 | 2.4 | 2.0 | 1.7 | 1.3 | .6 |
| .8 | 4.5 | 4.1 | 3.8 | 3.5 | 3.1 | 2.8 | 2.4 | 2.1 | 1.7 | 1.4 | 1.0 | .8 |
| 56 | 4.2 | 3.8 | 3.5 | 3.2 | 2.8 | 2.5 | 2.1 | 1.8 | 1.4 | 1.1 | .7 | 56 |
| .2 | 3.9 | 3.5 | 3.2 | 2.9 | 2.5 | 2.2 | 1.8 | 1.5 | 1.1 | .8 | .4 | .2 |
| .4 | 3.6 | 3.2 | 2.9 | 2.6 | 2.2 | 1.9 | 1.5 | 1.2 | .8 | .5 | .1 | .4 |
| .6 | 3.3 | 3.0 | 2.6 | 2.3 | 1.9 | 1.6 | 1.2 | .9 | .5 | .1 | .3 | .6 |
| .8 | 3.0 | 2.7 | 2.3 | 2.0 | 1.6 | 1.3 | .9 | .6 | .2 | .2 | .6 | .8 |
| 57 | 2.7 | 2.4 | 2.0 | 1.7 | 1.3 | 1.0 | .6 | .3 | .1 | .5 | .9 | 57 |
| .2 | 2.4 | 2.1 | 1.7 | 1.4 | 1.0 | .7 | .3 | .0 | .4 | .8 | 1.2 | .2 |
| .4 | 2.1 | 1.8 | 1.4 | 1.1 | .7 | .4 | .0 | .3 | .7 | 1.1 | 1.5 | .4 |
| .6 | 1.9 | 1.5 | 1.1 | .8 | .4 | .0 | .4 | .7 | 1.0 | 1.4 | 1.8 | .6 |
| .8 | 1.6 | 1.2 | .8 | .5 | .1 | .3 | .7 | 1.0 | 1.3 | 1.7 | 2.1 | .8 |
| 58 | 1.3 | .9 | .5 | .2 | .2 | .6 | 1.0 | 1.3 | 1.6 | 2.0 | 2.4 | 58 |
| .2 | 1.0 | .6 | .2 | .1 | .5 | .9 | 1.3 | 1.6 | 1.9 | 2.3 | 2.7 | .2 |
| .4 | .7 | .3 | .1 | .4 | .8 | 1.2 | 1.6 | 1.9 | 2.2 | 2.6 | 3.0 | .4 |
| .6 | .3 | .1 | .5 | .8 | 1.1 | 1.5 | 1.9 | 2.3 | 2.6 | 2.9 | 3.3 | .6 |
| .8 | .0 | .4 | .8 | 1.1 | 1.4 | 1.8 | 2.2 | 2.6 | 2.9 | 3.2 | 3.6 | .8 |
| 59 | .3 | .7 | 1.1 | 1.4 | 1.7 | 2.1 | 2.5 | 2.9 | 3.2 | 3.5 | 3.9 | 59 |
| .2 | .6 | 1.0 | 1.4 | 1.7 | 2.0 | 2.4 | 2.8 | 3.2 | 3.5 | 3.8 | 4.2 | .2 |
| .4 | .9 | 1.3 | 1.7 | 2.0 | 2.3 | 2.7 | 3.1 | 3.5 | 3.8 | 4.2 | 4.6 | .4 |
| .6 | 1.3 | 1.6 | 2.0 | 2.4 | 2.7 | 3.0 | 3.4 | 3.8 | 4.2 | 4.5 | 4.9 | .6 |
| .8 | 1.6 | 1.9 | 2.3 | 2.7 | 3.0 | 3.3 | 3.7 | 4.1 | 4.5 | 4.9 | 5.3 | .8 |
| 60 | 1.9 | 2.2 | 2.6 | 3.0 | 3.3 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | 60 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
| 60 | 1.9 | 2.2 | 2.6 | 3.0 | 3.3 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 |
| .2 | 2.2 | 2.5 | 2.9 | 3.3 | 3.6 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 |
| .4 | 2.5 | 2.8 | 3.2 | 3.6 | 3.9 | 4.3 | 4.7 | 5.0 | 5.4 | 5.8 | 6.2 |
| .6 | 2.8 | 3.2 | 3.5 | 3.9 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.2 | 6.6 |
| .8 | 3.1 | 3.5 | 3.8 | 4.2 | 4.6 | 5.0 | 5.4 | 5.7 | 6.1 | 6.5 | 6.9 |
| 61 | 3.4 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.4 | 6.8 | 7.2 |
| .2 | 3.7 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.3 | 6.7 | 7.1 | 7.5 |
| .4 | 4.0 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 | 6.3 | 6.6 | 7.0 | 7.4 | 7.8 |
| .6 | 4.4 | 4.8 | 5.1 | 5.5 | 5.9 | 6.3 | 6.6 | 7.0 | 7.4 | 7.8 | 8.2 |
| .8 | 4.7 | 5.1 | 5.5 | 5.9 | 6.2 | 6.6 | 6.9 | 7.3 | 7.7 | 8.1 | 8.5 |
| 62 | 5.0 | 5.4 | 5.8 | 6.2 | 6.5 | 6.9 | 7.2 | 7.6 | 8.0 | 8.4 | 8.8 |
| .2 | 5.3 | 5.7 | 6.1 | 6.5 | 6.8 | 7.2 | 7.5 | 7.9 | 8.3 | 8.7 | 9.1 |
| .4 | 5.7 | 6.1 | 6.4 | 6.8 | 7.1 | 7.5 | 7.9 | 8.3 | 8.7 | 9.1 | 9.4 |
| .6 | 6.0 | 6.4 | 6.8 | 7.2 | 7.5 | 7.9 | 8.2 | 8.6 | 9.0 | 9.4 | 9.8 |
| .8 | 6.4 | 6.8 | 7.1 | 7.5 | 7.8 | 8.2 | 8.6 | 9.0 | 9.4 | 9.8 | 10.1 |
| 63 | 6.7 | 7.1 | 7.4 | 7.8 | 8.1 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.4 |
| .2 | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | 8.8 | 9.2 | 9.6 | 10.0 | 10.4 | 10.7 |
| .4 | 7.3 | 7.7 | 8.1 | 8.5 | 8.8 | 9.2 | 9.6 | 10.0 | 10.4 | 10.7 | 11.1 |
| .6 | 7.7 | 8.1 | 8.4 | 8.8 | 9.1 | 9.5 | 9.9 | 10.3 | 10.7 | 11.1 | 11.4 |
| .8 | 8.0 | 8.4 | 8.8 | 9.2 | 9.5 | 9.9 | 10.3 | 10.7 | 11.1 | 11.4 | 11.8 |
| 64 | 8.3 | 8.7 | 9.1 | 9.5 | 9.8 | 10.2 | 10.6 | 11.0 | 11.4 | 11.7 | 12.1 |
| .2 | 8.6 | 9.0 | 9.4 | 9.8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.0 | 12.4 |
| .4 | 9.0 | 9.4 | 9.8 | 10.2 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 |
| .6 | 9.3 | 9.7 | 10.1 | 10.5 | 10.8 | 11.2 | 11.6 | 12.0 | 12.4 | 12.7 | 13.1 |
| .8 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12.0 | 12.4 | 12.8 | 13.1 | 13.5 |
| 65 | 10.0 | 10.4 | 10.8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.4 | 13.8 |
| .2 | 10.3 | 10.7 | 11.1 | 11.5 | 11.8 | 12.2 | 12.6 | 13.0 | 13.4 | 13.7 | 14.1 |
| .4 | 10.7 | 11.1 | 11.5 | 11.9 | 12.2 | 12.6 | 13.0 | 13.4 | 13.8 | 14.1 | 14.5 |
| .6 | 11.0 | 11.4 | 11.8 | 12.2 | 12.5 | 12.9 | 13.3 | 13.7 | 14.1 | 14.4 | 14.8 |
| .8 | 11.4 | 11.8 | 12.2 | 12.6 | 12.9 | 13.3 | 13.7 | 14.1 | 14.5 | 14.8 | 15.2 |
| 66 | 11.7 | 12.1 | 12.5 | 12.9 | 13.2 | 13.6 | 14.0 | 14.4 | 14.8 | 15.1 | 15.5 |
| .2 | 12.1 | 12.5 | 12.8 | 13.2 | 13.5 | 13.9 | 14.3 | 14.7 | 15.1 | 15.5 | 15.9 |
| .4 | 12.4 | 12.8 | 13.2 | 13.6 | 13.9 | 14.3 | 14.7 | 15.1 | 15.5 | 15.8 | 16.2 |
| .6 | 12.8 | 13.2 | 13.5 | 13.9 | 14.2 | 14.6 | 15.0 | 15.4 | 15.8 | 16.2 | 16.6 |
| .8 | 13.1 | 13.5 | 13.9 | 14.3 | 14.6 | 15.0 | 15.4 | 15.8 | 16.2 | 16.5 | 16.9 |
| 67 | 13.5 | 13.9 | 14.2 | 14.6 | 14.9 | 15.3 | 15.7 | 16.1 | 16.5 | 16.9 | 17.3 |
| .2 | 13.9 | 14.2 | 14.6 | 15.0 | 15.3 | 15.7 | 16.1 | 16.5 | 16.9 | 17.3 | 17.7 |
| .4 | 14.2 | 14.6 | 14.9 | 15.3 | 15.7 | 16.1 | 16.5 | 16.9 | 17.3 | 17.7 | 18.1 |
| .6 | 14.6 | 14.9 | 15.3 | 15.7 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.4 |
| .8 | 14.9 | 15.3 | 15.6 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.4 | 18.8 |
| 68 | 15.3 | 15.6 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.4 | 18.8 | 19.2 |
| .2 | 15.7 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.4 | 18.8 | 19.2 | 19.6 |
| .4 | 16.0 | 16.3 | 16.7 | 17.1 | 17.5 | 17.9 | 18.3 | 18.7 | 19.1 | 19.5 | 20.0 |
| .6 | 16.4 | 16.7 | 17.1 | 17.5 | 17.9 | 18.3 | 18.7 | 19.1 | 19.5 | 19.9 | 20.3 |
| .8 | 16.7 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.7 |
| 69 | 17.1 | 17.4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.6 | 21.1 |
| .2 | 17.5 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.6 | 21.0 | 21.5 |
| .4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.6 | 21.0 | 21.4 | 21.8 |
| .6 | 18.2 | 18.5 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.2 |
| .8 | 18.5 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 |
| 70 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 | 22.9 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 | 22.9 | 70 |
| .2 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 | 22.9 | 23.3 | .2 |
| .4 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 | 22.9 | 23.3 | 23.7 | .4 |
| .6 | 20.0 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.6 | 24.0 | .6 |
| .8 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.6 | 24.0 | 24.4 | .8 |
| 71 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.6 | 24.0 | 24.4 | 24.8 | 71 |
| .2 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.6 | 24.0 | 24.4 | 24.8 | 25.2 | .2 |
| .4 | 21.6 | 22.0 | 22.4 | 22.8 | 23.2 | 23.6 | 24.0 | 24.4 | 24.8 | 25.2 | 25.6 | .4 |
| .6 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.6 | 26.0 | .6 |
| .8 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 26.0 | 26.4 | .8 |
| 72 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.4 | 26.8 | 72 |
| .2 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.8 | 27.2 | .2 |
| .4 | 23.5 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.2 | 27.6 | .4 |
| .6 | 23.9 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.6 | 28.0 | .6 |
| .8 | 24.3 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | 28.0 | 28.4 | .8 |
| 73 | 24.7 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | 27.9 | 28.4 | 28.8 | 73 |
| .2 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | 27.9 | 28.3 | 28.8 | 29.2 | .2 |
| .4 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | 27.9 | 28.3 | 28.7 | 29.2 | 29.6 | .4 |
| .6 | 25.9 | 26.3 | 26.7 | 27.1 | 27.5 | 27.9 | 28.4 | 28.8 | 29.2 | 29.6 | 30.1 | .6 |
| .8 | 26.3 | 26.7 | 27.1 | 27.5 | 27.9 | 28.3 | 28.8 | 29.2 | 29.6 | 30.0 | 30.5 | .8 |
| 74 | 26.7 | 27.1 | 27.5 | 27.9 | 28.3 | 28.7 | 29.2 | 29.6 | 30.0 | 30.4 | 30.9 | 74 |
| .2 | 27.1 | 27.5 | 27.9 | 28.3 | 28.7 | 29.1 | 29.6 | 30.0 | 30.4 | 30.8 | 31.3 | .2 |
| .4 | 27.5 | 27.9 | 28.3 | 28.7 | 29.1 | 29.5 | 30.0 | 30.4 | 30.8 | 31.3 | 31.7 | .4 |
| .6 | 28.0 | 28.4 | 28.8 | 29.2 | 29.6 | 30.0 | 30.5 | 30.9 | 31.3 | 31.7 | 32.2 | .6 |
| .8 | 28.4 | 28.8 | 29.2 | 29.6 | 30.0 | 30.4 | 30.9 | 31.3 | 31.7 | 32.2 | 32.6 | .8 |
| 75 | 28.8 | 29.2 | 29.6 | 30.0 | 30.4 | 30.8 | 31.3 | 31.7 | 32.1 | 32.6 | 33.0 | 75 |
| .2 | 29.2 | 29.6 | 30.0 | 30.4 | 30.8 | 31.2 | 31.7 | 32.1 | 32.5 | 33.0 | 33.5 | .2 |
| .4 | 29.7 | 30.1 | 30.5 | 30.9 | 31.3 | 31.7 | 32.2 | 32.6 | 33.0 | 33.5 | 33.9 | .4 |
| .6 | 30.1 | 30.5 | 30.9 | 31.3 | 31.7 | 32.1 | 32.6 | 33.0 | 33.4 | 33.9 | 34.4 | .6 |
| .8 | 30.6 | 31.0 | 31.4 | 31.8 | 32.2 | 32.6 | 33.1 | 33.5 | 33.9 | 34.4 | 34.8 | .8 |
| 76 | 31.0 | 31.4 | 31.8 | 32.2 | 32.6 | 33.0 | 33.5 | 33.9 | 34.3 | 34.8 | 35.3 | 76 |
| .2 | 31.4 | 31.8 | 32.2 | 32.7 | 33.1 | 33.5 | 34.0 | 34.4 | 34.8 | 35.3 | 35.8 | .2 |
| .4 | 31.9 | 32.3 | 32.7 | 33.1 | 33.5 | 34.0 | 34.4 | 34.9 | 35.3 | 35.8 | 36.2 | .4 |
| .6 | 32.3 | 32.7 | 33.1 | 33.6 | 34.0 | 34.4 | 34.9 | 35.3 | 35.7 | 36.2 | 36.7 | .6 |
| .8 | 32.8 | 33.2 | 33.6 | 34.0 | 34.4 | 34.9 | 35.3 | 35.8 | 36.2 | 36.7 | 37.1 | .8 |
| 77 | 33.2 | 33.6 | 34.0 | 34.5 | 34.9 | 35.4 | 35.8 | 36.3 | 36.7 | 37.2 | 37.6 | 77 |
| .2 | 33.7 | 34.1 | 34.5 | 35.0 | 35.4 | 35.9 | 36.3 | 36.8 | 37.2 | 37.7 | 38.1 | .2 |
| .4 | 34.2 | 34.6 | 35.0 | 35.5 | 35.9 | 36.4 | 36.8 | 37.2 | 37.7 | 38.1 | 38.6 | .4 |
| .6 | 34.6 | 35.0 | 35.5 | 35.9 | 36.3 | 36.8 | 37.2 | 37.7 | 38.1 | 38.6 | 39.0 | .6 |
| .8 | 35.1 | 35.5 | 36.0 | 36.4 | 36.8 | 37.3 | 37.7 | 38.1 | 38.6 | 39.0 | 39.5 | .8 |
| 78 | 35.6 | 36.0 | 36.5 | 36.9 | 37.3 | 37.8 | 38.2 | 38.6 | 39.1 | 39.5 | 40.0 | 78 |
| .2 | 36.1 | 36.5 | 37.0 | 37.4 | 37.8 | 38.3 | 38.7 | 39.1 | 39.6 | 40.0 | 40.5 | .2 |
| .4 | 36.6 | 37.0 | 37.5 | 37.9 | 38.3 | 38.8 | 39.2 | 39.6 | 40.1 | 40.5 | 41.0 | .4 |
| .6 | 37.1 | 37.5 | 37.9 | 38.3 | 38.8 | 39.2 | 39.7 | 40.1 | 40.6 | 41.1 | 41.5 | .6 |
| .8 | 37.6 | 38.0 | 38.4 | 38.8 | 39.3 | 39.7 | 40.2 | 40.6 | 41.1 | 41.6 | 42.0 | .8 |
| 79 | 38.1 | 38.5 | 38.9 | 39.3 | 39.8 | 40.2 | 40.7 | 41.1 | 41.6 | 42.1 | 42.5 | 79 |
| .2 | 38.6 | 39.0 | 39.4 | 39.8 | 40.3 | 40.7 | 41.2 | 41.6 | 42.1 | 42.6 | 43.1 | .2 |
| .4 | 39.1 | 39.5 | 39.9 | 40.3 | 40.8 | 41.2 | 41.7 | 42.1 | 42.7 | 43.2 | 43.6 | .4 |
| .6 | 39.6 | 40.0 | 40.5 | 40.9 | 41.4 | 41.8 | 42.3 | 42.7 | 43.2 | 43.7 | 44.2 | .6 |
| .8 | 40.1 | 40.5 | 41.0 | 41.4 | 41.9 | 42.3 | 42.8 | 43.2 | 43.8 | 44.3 | 44.7 | .8 |
| 80 | 40.6 | 41.0 | 41.5 | 41.9 | 42.4 | 42.8 | 43.3 | 43.7 | 44.3 | 44.8 | 45.3 | 80 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 40.6 | 41.0 | 41.5 | 41.9 | 42.4 | 42.8 | 43.3 | 43.7 | 44.3 | 44.8 | 45.3 | 80 |
| .2 | 41.1 | 41.5 | 42.0 | 42.5 | 42.9 | 43.4 | 43.9 | 44.3 | 44.8 | 45.3 | 45.8 | .2 |
| .4 | 41.7 | 42.1 | 42.6 | 43.0 | 43.5 | 43.9 | 44.4 | 44.8 | 45.4 | 45.9 | 46.4 | .4 |
| .6 | 42.2 | 42.6 | 43.1 | 43.6 | 44.0 | 44.5 | 45.0 | 45.4 | 45.9 | 46.4 | 46.9 | .6 |
| .8 | 42.8 | 43.2 | 43.7 | 44.1 | 44.6 | 45.0 | 45.5 | 45.9 | 46.5 | 47.0 | 47.5 | .8 |
| 81 | 43.3 | 43.7 | 44.2 | 44.7 | 45.1 | 45.6 | 46.1 | 46.5 | 47.0 | 47.5 | 48.0 | 81 |
| .2 | 43.9 | 44.3 | 44.8 | 45.3 | 45.7 | 46.2 | 46.7 | 47.1 | 47.6 | 48.1 | 48.6 | .2 |
| .4 | 44.4 | 44.9 | 45.3 | 45.8 | 46.3 | 46.7 | 47.2 | 47.7 | 48.1 | 48.7 | 49.1 | .4 |
| .6 | 45.0 | 45.4 | 45.9 | 46.4 | 46.8 | 47.3 | 47.8 | 48.2 | 48.7 | 49.2 | 49.7 | .6 |
| .8 | 45.5 | 46.0 | 46.4 | 46.9 | 47.4 | 47.8 | 48.3 | 48.8 | 49.2 | 49.8 | 50.2 | .8 |
| 82 | 46.1 | 46.6 | 47.0 | 47.5 | 48.0 | 48.4 | 48.9 | 49.4 | 49.8 | 50.4 | 50.8 | 82 |
| .2 | 46.7 | 47.2 | 47.6 | 48.1 | 48.6 | 49.0 | 49.5 | 49.9 | 50.4 | 50.9 | 51.3 | .2 |
| .4 | 47.3 | 47.8 | 48.2 | 48.7 | 49.2 | 49.6 | 50.0 | 50.5 | 50.9 | 51.4 | 51.8 | .4 |
| .6 | 47.9 | 48.4 | 48.8 | 49.2 | 49.7 | 50.1 | 50.6 | 51.0 | 51.5 | 52.0 | 52.4 | .6 |
| .8 | 48.5 | 49.0 | 49.4 | 49.8 | 50.3 | 50.7 | 51.1 | 51.6 | 52.0 | 52.5 | 52.9 | .8 |
| 83 | 49.1 | 49.6 | 50.0 | 50.4 | 50.9 | 51.3 | 51.7 | 52.1 | 52.6 | 53.0 | 53.4 | 83 |
| .2 | 49.7 | 50.2 | 50.6 | 51.0 | 51.5 | 51.9 | 52.3 | 52.7 | 53.2 | 53.5 | 53.9 | .2 |
| .4 | 50.3 | 50.8 | 51.2 | 51.6 | 52.1 | 52.5 | 52.9 | 53.3 | 53.7 | 54.1 | 54.5 | .4 |
| .6 | 51.0 | 51.4 | 51.8 | 52.2 | 52.6 | 53.0 | 53.4 | 53.8 | 54.3 | 54.6 | 55.0 | .6 |
| .8 | 51.6 | 52.0 | 52.4 | 52.8 | 53.2 | 53.6 | 54.0 | 54.4 | 54.8 | 55.2 | 55.6 | .8 |
| 84 | 52.2 | 52.6 | 53.0 | 53.4 | 53.8 | 54.2 | 54.6 | 55.0 | 55.4 | 55.7 | 56.1 | 84 |
| .2 | 52.9 | 53.3 | 53.6 | 54.0 | 54.4 | 54.8 | 55.2 | 55.6 | 56.0 | 56.3 | 56.7 | .2 |
| .4 | 53.5 | 53.9 | 54.3 | 54.7 | 55.1 | 55.5 | 55.8 | 56.2 | 56.6 | 56.9 | 57.3 | .4 |
| .6 | 54.2 | 54.6 | 54.9 | 55.3 | 55.7 | 56.1 | 56.5 | 56.9 | 57.2 | 57.6 | 57.9 | .6 |
| .8 | 54.8 | 55.2 | 55.6 | 56.0 | 56.4 | 56.8 | 57.1 | 57.5 | 57.8 | 58.2 | 58.5 | .8 |
| 85 | 55.5 | 55.9 | 56.2 | 56.6 | 57.0 | 57.4 | 57.7 | 58.1 | 58.4 | 58.8 | 59.1 | 85 |
| .2 | 56.2 | 56.6 | 56.9 | 57.3 | 57.7 | 58.0 | 58.3 | 58.7 | 59.0 | 59.4 | 59.7 | .2 |
| .4 | 56.9 | 57.3 | 57.6 | 58.0 | 58.3 | 58.7 | 59.0 | 59.3 | 59.7 | 60.0 | 60.3 | .4 |
| .6 | 57.6 | 57.9 | 58.2 | 58.6 | 59.0 | 59.3 | 59.6 | 60.0 | 60.3 | 60.7 | 61.0 | .6 |
| .8 | 58.3 | 58.6 | 58.9 | 59.3 | 59.6 | 60.0 | 60.3 | 60.6 | 61.0 | 61.3 | 61.6 | .8 |
| 86 | 59.0 | 59.3 | 59.6 | 60.0 | 60.3 | 60.6 | 60.9 | 61.2 | 61.6 | 61.9 | 62.2 | 86 |
| .2 | 59.7 | 60.0 | 60.3 | 60.7 | 61.0 | 61.3 | 61.6 | 61.9 | 62.2 | 62.5 | 62.8 | .2 |
| .4 | 60.4 | 60.7 | 61.0 | 61.4 | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.2 | 63.5 | .4 |
| .6 | 61.1 | 61.4 | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.2 | 63.5 | 63.8 | 64.1 | .6 |
| .8 | 61.8 | 62.1 | 62.4 | 62.7 | 63.0 | 63.3 | 63.6 | 63.9 | 64.2 | 64.5 | 64.8 | .8 |
| 87 | 62.5 | 62.8 | 63.1 | 63.4 | 63.7 | 64.0 | 64.3 | 64.6 | 64.8 | 65.1 | 65.4 | 87 |
| .2 | 63.2 | 63.5 | 63.8 | 64.1 | 64.4 | 64.7 | 64.9 | 65.2 | 65.5 | 65.7 | 66.0 | .2 |
| .4 | 63.9 | 64.2 | 64.5 | 64.7 | 65.0 | 65.3 | 65.6 | 65.9 | 66.1 | 66.4 | 66.7 | .4 |
| .6 | 64.6 | 64.8 | 65.1 | 65.4 | 65.7 | 66.0 | 66.2 | 66.5 | 66.8 | 67.0 | 67.3 | .6 |
| .8 | 65.3 | 65.5 | 65.8 | 66.0 | 66.3 | 66.6 | 66.9 | 67.2 | 67.4 | 67.7 | 68.0 | .8 |
| 88 | 66.0 | 66.2 | 66.5 | 6 .7 | 67.0 | 67.3 | 67.5 | 67.8 | 68.1 | 68.3 | 68.6 | 88 |
| .2 | 66.7 | 66.9 | 67.2 | 67.4 | 67.7 | 68.0 | 68.2 | 68.4 | 68.7 | 68.9 | 69.2 | .2 |
| .4 | 67.4 | 67.6 | 67.9 | 68.1 | 68.3 | 68.6 | 68.8 | 69.1 | 69.4 | 69.6 | 69.8 | .4 |
| .6 | 68.0 | 68.2 | 68.5 | 68.7 | 69.0 | 69.3 | 69.5 | 69.7 | 70.0 | 70.2 | 70.5 | .6 |
| .8 | 68.7 | 68.9 | 69.2 | 69.4 | 69.6 | 69.9 | 70.1 | 70.4 | 70.7 | 70.9 | 71.1 | .8 |
| 89 | 69.4 | 69.6 | 69.9 | 70.1 | 70.3 | 70.6 | 70.8 | 71.0 | 71.3 | 71 5 | 71.7 | 89 |
| .2 | 70.1 | 70.3 | 70 6 | 70.8 | 71.0 | 71.3 | 71.5 | 71.7 | 71.9 | 72.1 | 72.4 | .2 |
| .4 | 70.8 | 71.0 | 71.3 | 71.5 | 71.7 | 71.9 | 72.1 | 72.3 | 72.6 | 72.8 | 73.0 | .4 |
| .6 | 71.4 | 71.6 | 71.9 | 72.1 | 72.3 | 72.6 | 72.8 | 73.0 | 73.2 | 73.4 | 73.7 | .6 |
| .8 | 72.1 | 72.3 | 72.6 | 72.8 | 73.0 | 73.2 | 73.4 | 73.6 | 73.9 | 74.1 | 74.3 | .8 |
| 90 | 72.8 | 73 0 | 73.3 | 73.5 | 73.7 | 73.9 | 74.1 | 74.3 | 74.5 | 74.7 | 75.0 | 90 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 72.8 | 73.0 | 73.3 | 73.5 | 73.7 | 73.9 | 74.1 | 74.3 | 74.5 | 74.7 | 75.0 | 90 |
| .2 | 73.5 | 73.7 | 73.9 | 74.1 | 74.3 | 74.5 | 74.7 | 74.9 | 75.1 | 75.3 | 75.6 | .2 |
| .4 | 74.1 | 74.3 | 74.5 | 74.7 | 74.9 | 75.1 | 75.3 | 75.5 | 75.7 | 75.9 | 76.2 | .4 |
| .6 | 74.8 | 75.0 | 75.2 | 75.4 | 75.6 | 75.8 | 76.0 | 76.2 | 76.4 | 76.6 | 76.8 | .6 |
| .8 | 75.4 | 75.6 | 75.8 | 76.0 | 76.2 | 76.4 | 76.6 | 76.8 | 77.0 | 77.2 | 77.4 | .8 |
| 91 | 76.1 | 76.3 | 76.4 | 76.6 | 76.8 | 77.0 | 77.2 | 77.4 | 77.6 | 77.8 | 78.0 | 91 |
| .2 | 76.7 | 76.9 | 77.0 | 77.2 | 77.4 | 77.6 | 77.8 | 78.0 | 78.2 | 78.4 | 78.6 | .2 |
| .4 | 77.3 | 77.5 | 77.6 | 77.8 | 78.0 | 78.2 | 78.4 | 78.6 | 78.8 | 79.0 | 79.2 | .4 |
| .6 | 78.0 | 78.2 | 78.3 | 78.5 | 78.7 | 78.8 | 79.0 | 79.2 | 79.4 | 79.6 | 79.7 | .6 |
| .8 | 78.6 | 78.8 | 78.9 | 79.1 | 79.3 | 79.4 | 79.6 | 79.8 | 80.0 | 80.2 | 80.3 | .8 |
| 92 | 79.2 | 79.4 | 79.5 | 79.7 | 79.9 | 80.0 | 80.2 | 80.4 | 80.6 | 80.8 | 80.9 | 92 |
| .2 | 79.8 | 80.0 | 80.1 | 80.3 | 80.5 | 80.6 | 80.8 | 81.0 | 81.2 | 81.4 | 81.5 | .2 |
| .4 | 80.4 | 80.6 | 80.7 | 80.9 | 81.1 | 81.2 | 81.4 | 81.6 | 81.8 | 82.0 | 82.1 | .4 |
| .6 | 81.1 | 81.2 | 81.4 | 81.5 | 81.7 | 81.8 | 82.0 | 82.1 | 82.3 | 82.5 | 82.6 | .6 |
| .8 | 81.7 | 81.8 | 82.0 | 82.1 | 82.3 | 82.4 | 82.6 | 82.7 | 82.9 | 83.1 | 83.2 | .8 |
| 93 | 82.3 | 82.4 | 82.6 | 82.7 | 82.9 | 83.0 | 83.2 | 83.3 | 83.5 | 83.7 | 83.8 | 93 |
| .2 | 82.9 | 83.0 | 83.2 | 83.3 | 83.5 | 83.6 | 83.8 | 83.9 | 84.1 | 84.3 | 84.4 | .2 |
| .4 | 83.5 | 83.6 | 83.8 | 83.9 | 84.0 | 84.2 | 84.3 | 84.5 | 84.6 | 84.8 | 84.9 | .4 |
| .6 | 84.0 | 84.1 | 84.3 | 84.4 | 84.6 | 84.7 | 84.9 | 85.0 | 85.2 | 85.4 | 85.5 | .6 |
| .8 | 84.6 | 84.7 | 84.9 | 85.0 | 85.1 | 85.3 | 85.4 | 85.6 | 85.7 | 85.9 | 86.0 | .8 |
| 94 | 85.2 | 85.3 | 85.5 | 85.6 | 85.7 | 85.9 | 86.0 | 86.2 | 86.3 | 86.5 | 86.6 | 94 |
| .2 | 85.8 | 85.9 | 86.1 | 86.2 | 86.3 | 86.4 | 86.6 | 86.7 | 86.8 | 87.0 | 87.1 | .2 |
| .4 | 86.3 | 86.5 | 86.6 | 86.7 | 86.8 | 87.0 | 87.1 | 87.3 | 87.4 | 87.6 | 87.7 | .4 |
| .6 | 86.9 | 87.0 | 87.2 | 87.3 | 87.4 | 87.5 | 87.7 | 87.8 | 87.9 | 88.1 | 88.2 | .6 |
| .8 | 87.4 | 87.6 | 87.7 | 87.8 | 87.9 | 88.1 | 88.2 | 88.4 | 88.5 | 88.7 | 88.8 | .8 |
| 95 | 88.0 | 88.2 | 88.3 | 88.4 | 88.5 | 88.6 | 88.8 | 88.9 | 89.0 | 89.2 | 89.3 | 95 |
| .2 | 88.5 | 88.7 | 88 8 | 88.9 | 89.0 | 89.1 | 89.3 | 89.4 | 89.5 | 89.7 | 89.8 | .2 |
| .4 | 89.1 | 89.2 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.9 | 90.1 | 90.2 | 90.3 | .4 |
| .6 | 89.6 | 89.8 | 89.9 | 90.0 | 90.1 | 90.2 | 90.4 | 90.5 | 90.6 | 90.8 | 90.9 | .6 |
| .8 | 90.2 | 90.3 | 90.5 | 90.6 | 90.7 | 90.8 | 90.9 | 91.0 | 91.2 | 91.3 | 91.4 | .8 |
| 96 | 90.7 | 90.8 | 91.0 | 91.1 | 91.2 | 91.3 | 91.4 | 91.5 | 91.7 | 91.8 | 91.9 | 96 |
| .2 | 91.2 | 91.3 | 91·5 | 91.6 | 91.7 | 91.8 | 91.9 | 92.0 | 92.2 | 92.3 | 92.4 | .2 |
| .4 | 91.7 | 91.8 | 92.0 | 92.1 | 92.2 | 92.3 | 92.4 | 92.5 | 92.7 | 92.8 | 92.9 | .4 |
| .6 | 92.3 | 92.4 | 92.5 | 92.6 | 92.7 | 92.8 | 93.0 | 93.1 | 93.2 | 93.3 | 93.4 | .6 |
| .8 | 92.8 | 92.9 | 93.0 | 93.1 | 93.2 | 93.3 | 93.5 | 93.6 | 93.7 | 93.8 | 93.9 | .8 |
| 97 | 93.3 | 93.4 | 93.5 | 93.6 | 93.7 | 93.8 | 94.0 | 94.1 | 94.2 | 94.3 | 94.4 | 97 |
| .2 | 93.8 | 93.9 | 94.0 | 94.1 | 94.2 | 94.3 | 94.5 | 94.6 | 94.7 | 94.8 | 94.9 | .2 |
| .4 | 94.3 | 94.4 | 94.5 | 94.6 | 94.7 | 94.8 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | .4 |
| .6 | 94.9 | 94.9 | 95.0 | 95.1 | 95.2 | 95.3 | 95.4 | 95.5 | 95.6 | 95.7 | 95.9 | .6 |
| .8 | 95.4 | 95.4 | 95.5 | 95.6 | 95.7 | 95.8 | 95.9 | 96.0 | 96.1 | 96.2 | 96.4 | .8 |
| 98 | 95.9 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 96.7 | 96.9 | 98 |
| .2 | 96.4 | 96.4 | 96.5 | 96.6 | 96.7 | 96.8 | 96.9 | 97.0 | 97.1 | 97.2 | 97.4 | .2 |
| .4 | 96.8 | 96.9 | 97.0 | 97.1 | 97.2 | 97.3 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | .4 |
| .6 | 97.3 | 97.3 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | 97.9 | 98.0 | 98.1 | 98.3 | .6 |
| .8 | 97.7 | 97.8 | 97.9 | 98.0 | 98.1 | 98.2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | .8 |
| 99 | 98 2 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | 98.8 | 98.9 | 99.0 | 99.1 | 99.2 | 99 |
| .2 | 98.7 | 99.8 | 98.9 | 99.0 | 99.1 | 99.1 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | .2 |
| .4 | 99.1 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 | — | .4 |
| .6 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 | 100.0 | — | — | — | — | — | .6 |
| .8 | 100.0 | — | — | — | — | — | — | — | — | — | — | .8 |
| 100 | — | — | — | — | — | — | — | — | — | — | — | 100 |
| INDICATION. | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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# SIKES'S

## TABLE

OF THE

## CONCENTRATED STRENGTH

OF

# SPIRITS,

*(Concluded,)*

## TEMPERATURE

70° TO 80°.

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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 0 | 64.5 | 64.3 | 64.1 | 63.8 | 63.6 | 63.3 | 63.0 | 62.7 | 62.5 | 62.3 | 62.0 | 0 |
| .2 | 64.3 | 64.1 | 63.9 | 63.6 | 63.4 | 63.1 | 62.8 | 62.5 | 62.3 | 62.1 | 61.8 | .2 |
| .4 | 64.2 | 64.0 | 63.7 | 63.4 | 63.2 | 63.0 | 62.7 | 62.4 | 62.2 | 61.9 | 61.6 | .4 |
| .6 | 64.0 | 63.8 | 63.6 | 63.3 | 63.1 | 62.8 | 62.5 | 62.2 | 62.0 | 61.8 | 61.5 | .6 |
| .8 | 63.9 | 63.7 | 63.4 | 63.1 | 62.9 | 62.7 | 62.4 | 62.1 | 61.9 | 61.6 | 61.3 | .8 |
| 1 | 63.7 | 63.5 | 63.2 | 62.9 | 62.7 | 62.5 | 62.2 | 61.9 | 61.7 | 61.4 | 61.1 | 1 |
| .2 | 63.5 | 63.3 | 63.0 | 62.7 | 62.5 | 62.3 | 62.0 | 61.7 | 61.5 | 61.2 | 60.9 | .2 |
| .4 | 63.3 | 63.1 | 62.9 | 62.6 | 62.3 | 62.1 | 61.8 | 61.5 | 61.3 | 61.0 | 60.7 | .4 |
| .6 | 63.2 | 63.0 | 62.7 | 62.4 | 62.2 | 62.0 | 61.7 | 61.4 | 61.2 | 60.9 | 60.6 | .6 |
| .8 | 63.0 | 62.8 | 62.6 | 62.3 | 62.0 | 61.8 | 61.5 | 61.2 | 61.0 | 60.7 | 60.4 | .8 |
| 2 | 62.8 | 62.6 | 62.4 | 62.1 | 61.8 | 61.6 | 61.3 | 61.0 | 60.8 | 60.5 | 60.2 | 2 |
| .2 | 62.6 | 62.4 | 62.2 | 61.9 | 61.6 | 61.4 | 61.1 | 60.8 | 60.6 | 60.3 | 60.0 | .2 |
| .4 | 62.5 | 62.3 | 62.0 | 61.7 | 61.4 | 61.2 | 60.9 | 60.7 | 60.5 | 60.2 | 59.9 | .4 |
| .6 | 62.3 | 62.1 | 61.9 | 61.6 | 61.3 | 61.1 | 60.8 | 60.5 | 60.3 | 60.0 | 59.7 | .6 |
| .8 | 62.2 | 62.0 | 61.7 | 61.4 | 61.1 | 60.9 | 60.6 | 60.4 | 60.2 | 59.9 | 59.6 | .8 |
| 3 | 62.0 | 61.8 | 61.5 | 61.2 | 60.9 | 60.7 | 60.4 | 60.2 | 60.0 | 59.7 | 59.4 | 3 |
| .2 | 61.8 | 61.6 | 61.3 | 61.0 | 60.7 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 59.2 | .2 |
| .4 | 61.6 | 61.4 | 61.1 | 60.8 | 60.5 | 60.3 | 60.1 | 59.8 | 59.6 | 59.3 | 59.0 | .4 |
| .6 | 61.5 | 61.3 | 61.0 | 60.7 | 60.4 | 60.2 | 59.9 | 59.7 | 59.5 | 59.2 | 58.9 | .6 |
| .8 | 61.3 | 61.1 | 60.8 | 60.5 | 60.2 | 60.0 | 59.8 | 59.5 | 59.3 | 59.0 | 58.7 | .8 |
| 4 | 61.1 | 60.9 | 60.6 | 60.3 | 60.0 | 59.8 | 59.6 | 59.3 | 59.1 | 58.8 | 58.5 | 4 |
| .2 | 60.9 | 60.7 | 60.4 | 60.1 | 59.8 | 59.6 | 59.4 | 59.1 | 58.9 | 58.6 | 58.3 | .2 |
| .4 | 60.7 | 60.5 | 60.2 | 59.9 | 59.7 | 59.5 | 59.2 | 58.9 | 58.7 | 58.4 | 58.1 | .4 |
| .6 | 60.6 | 60.4 | 60.1 | 59.8 | 59.5 | 59.3 | 59.1 | 58.8 | 58.6 | 58.3 | 58.0 | .6 |
| .8 | 60.4 | 60.2 | 59.9 | 59.6 | 59.4 | 59.2 | 58.9 | 58.6 | 58.4 | 58.1 | 57.8 | .8 |
| 5 | 60.2 | 60.0 | 59.7 | 59.4 | 59.2 | 59.0 | 58.7 | 58.4 | 58.2 | 57.9 | 57.6 | 5 |
| .2 | 60.0 | 59.8 | 59.5 | 59.2 | 59.0 | 58.8 | 58.5 | 58.2 | 58.0 | 57.7 | 57.4 | .2 |
| .4 | 59.8 | 59.6 | 59.3 | 59.0 | 58.8 | 58.6 | 58.3 | 58.0 | 57.8 | 57.5 | 57.2 | .4 |
| .6 | 59.7 | 59.5 | 59.2 | 58.9 | 58.6 | 58.4 | 58.2 | 57.9 | 57.7 | 57.4 | 57.1 | .6 |
| .8 | 59.5 | 59.3 | 59.0 | 58.7 | 58.4 | 58.2 | 58.0 | 57.7 | 57.5 | 57.2 | 56.9 | .8 |
| 6 | 59.3 | 59.1 | 58.8 | 58.5 | 58.2 | 58.0 | 57.8 | 57.5 | 57.3 | 57.0 | 56.7 | 6 |
| .2 | 59.1 | 58.9 | 58.6 | 58.3 | 58.0 | 57.8 | 57.6 | 57.3 | 57.1 | 56.8 | 56.5 | .2 |
| .4 | 58.9 | 58.7 | 58.4 | 58.1 | 57.8 | 57.6 | 57.4 | 57.1 | 56.9 | 56.6 | 56.3 | .4 |
| .6 | 58.8 | 58.6 | 58.3 | 58.0 | 57.7 | 57.5 | 57.2 | 56.9 | 56.7 | 56.4 | 56.1 | .6 |
| .8 | 58.6 | 58.4 | 58.1 | 57.8 | 57.5 | 57.3 | 57.0 | 56.7 | 56.5 | 56.2 | 55.9 | .8 |
| 7 | 58.4 | 58.2 | 57.9 | 57.6 | 57.3 | 57.1 | 56.8 | 56.5 | 56.3 | 56.0 | 55.7 | 7 |
| .2 | 58.2 | 58.0 | 57.7 | 57.4 | 57.1 | 56.9 | 56.6 | 56.3 | 56.1 | 55.8 | 55.5 | .2 |
| .4 | 58.0 | 57.8 | 57.5 | 57.2 | 56.9 | 56.7 | 56.4 | 56.1 | 55.9 | 55.6 | 55.3 | .4 |
| .6 | 57.9 | 57.7 | 57.4 | 57.1 | 56.8 | 56.6 | 56.3 | 56.0 | 55.8 | 55.5 | 55.2 | .6 |
| .8 | 57.7 | 57.5 | 57.2 | 56.9 | 56.6 | 56.4 | 56.1 | 55.8 | 55.6 | 55.3 | 55.0 | .8 |
| 8 | 57.5 | 57.3 | 57.0 | 56.7 | 56.4 | 56.2 | 55.9 | 55.6 | 55.4 | 55.1 | 54.8 | 8 |
| .2 | 57.3 | 57.1 | 56.8 | 56.5 | 56.2 | 56.0 | 55.7 | 55.4 | 55.2 | 54.9 | 54.6 | .2 |
| .4 | 57.1 | 56.9 | 56.6 | 56.3 | 56.0 | 55.8 | 55.5 | 55.2 | 55.0 | 54.7 | 54.4 | .4 |
| .6 | 57.0 | 56.8 | 56.5 | 56.2 | 55.9 | 55.7 | 55.4 | 55.1 | 54.9 | 54.6 | 54.3 | .6 |
| .8 | 56.8 | 56.6 | 56.3 | 56.0 | 55.7 | 55.5 | 55.2 | 54.9 | 54.7 | 54.4 | 54.1 | .8 |
| 9 | 56.6 | 56.4 | 56.1 | 55.8 | 55.5 | 55.3 | 55.0 | 54.7 | 54.5 | 54.2 | 53.9 | 9 |
| .2 | 56.4 | 56.2 | 55.9 | 55.6 | 55.3 | 55.1 | 54.8 | 54.5 | 54.3 | 54.0 | 53.7 | .2 |
| .4 | 56.2 | 56.0 | 55.7 | 55.4 | 55.1 | 54.9 | 54.6 | 54.3 | 54.1 | 53.8 | 53.5 | .4 |
| .6 | 56.0 | 55.8 | 55.6 | 55.3 | 55.0 | 54.7 | 54.4 | 54.1 | 53.9 | 53.6 | 53.3 | .6 |
| .8 | 55.8 | 55.6 | 55.4 | 55.1 | 54.8 | 54.5 | 54.2 | 53.9 | 53.7 | 53.4 | 53.1 | .8 |
| 10 | 55.6 | 55.4 | 55.2 | 54.9 | 54.6 | 54.3 | 54.0 | 53.7 | 53.5 | 53.2 | 52.9 | 10 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 10 | 55.6 | 55.4 | 55.2 | 54.9 | 54.6 | 54.3 | 54.0 | 53.7 | 53.5 | 53.2 | 52.9 | 10 |
| .2 | 55.4 | 55.2 | 55.0 | 54.7 | 54.4 | 54.1 | 53.8 | 53.5 | 53.3 | 53.0 | 52.7 | .2 |
| .4 | 55.2 | 55.0 | 54.8 | 54.5 | 54.2 | 53.9 | 53.6 | 53.3 | 53.1 | 52.8 | 52.5 | .4 |
| .6 | 55.1 | 54.9 | 54.6 | 54.3 | 54.1 | 53.8 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | .6 |
| .8 | 54.9 | 54.7 | 54.4 | 54.1 | 53.9 | 53.6 | 53.3 | 53.0 | 52.8 | 52.5 | 52.2 | .8 |
| 11 | 54.7 | 54.5 | 54.2 | 53.9 | 53.7 | 53.4 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 11 |
| .2 | 54.5 | 54.3 | 54.0 | 53.7 | 53.5 | 53.2 | 52.9 | 52.6 | 52.4 | 52.1 | 51.8 | .2 |
| .4 | 54.3 | 54.1 | 53.8 | 53.5 | 53.3 | 53.0 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | .4 |
| .6 | 54.2 | 54.0 | 53.7 | 53.4 | 53.2 | 52.9 | 52.6 | 52.3 | 52.0 | 51.7 | 51.4 | .6 |
| .8 | 54.0 | 53.8 | 53.5 | 53.2 | 53.0 | 52.7 | 52.4 | 52.1 | 51.8 | 51.5 | 51.2 | .8 |
| 12 | 53.8 | 53.6 | 53.3 | 53.0 | 52.8 | 52.5 | 52.2 | 51.9 | 51.6 | 51.3 | 51.0 | 12 |
| .2 | 53.6 | 53.4 | 53.1 | 52.8 | 52.6 | 52.3 | 52.0 | 51.7 | 51.4 | 51.1 | 50.8 | .2 |
| .4 | 53.4 | 53.2 | 52.9 | 52.6 | 52.4 | 52.1 | 51.8 | 51.5 | 51.2 | 50.9 | 50.6 | .4 |
| .6 | 53.2 | 53.0 | 52.7 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 | 51.1 | 50.8 | 50.5 | .6 |
| .8 | 53.0 | 52.8 | 52.5 | 52.2 | 52.0 | 51.7 | 51.4 | 51.2 | 50.9 | 50.6 | 50.3 | .8 |
| 13 | 52.8 | 52.6 | 52.3 | 52.0 | 51.8 | 51.5 | 51.2 | 51.0 | 50.7 | 50.4 | 50.1 | 13 |
| .2 | 52.6 | 52.4 | 52.1 | 51.8 | 51.6 | 51.3 | 51.0 | 50.8 | 50.5 | 50.2 | 49.9 | .2 |
| .4 | 52.4 | 52.2 | 51.9 | 51.6 | 51.4 | 51.1 | 50.8 | 50.6 | 50.3 | 50.0 | 49.7 | .4 |
| .6 | 52.3 | 52.1 | 51.8 | 51.5 | 51.2 | 50.9 | 50.6 | 50.4 | 50.1 | 49.8 | 49.5 | .6 |
| .8 | 52.1 | 51.9 | 51.6 | 51.3 | 51.0 | 50.7 | 50.4 | 50.2 | 49.9 | 49.6 | 49.3 | .8 |
| 14 | 51.9 | 51.7 | 51.4 | 51.1 | 50.8 | 50.5 | 50.2 | 50.0 | 49.7 | 49.4 | 49.1 | 14 |
| .2 | 51.7 | 51.5 | 51.2 | 50.9 | 50.6 | 50.3 | 50.0 | 49.8 | 49.5 | 49.2 | 48.9 | .2 |
| .4 | 51.5 | 51.3 | 51.0 | 50.7 | 50.4 | 50.1 | 49.8 | 49.6 | 49.3 | 49.0 | 48.7 | .4 |
| .6 | 51.4 | 51.1 | 50.8 | 50.5 | 50.3 | 50.0 | 49.6 | 49.4 | 49.1 | 48.8 | 48.5 | .6 |
| .8 | 51.2 | 50.9 | 50.6 | 50.3 | 50.1 | 49.8 | 49.4 | 49.2 | 48.9 | 48.6 | 48.3 | .8 |
| 15 | 51.0 | 50.7 | 50.4 | 50.1 | 49.9 | 49.6 | 49.2 | 49.0 | 48.7 | 48.4 | 48.1 | 15 |
| .2 | 50.8 | 50.5 | 50.2 | 49.9 | 49.7 | 49.4 | 49 0 | 48.8 | 48.5 | 48.2 | 47.9 | .2 |
| .4 | 50.6 | 50.3 | 50.0 | 49.7 | 49.5 | 49.2 | 48.8 | 48.6 | 48.3 | 48.0 | 47.7 | .4 |
| .6 | 50.4 | 50.1 | 49.8 | 49.5 | 49.3 | 49.0 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | .6 |
| .8 | 50.2 | 49.9 | 49.6 | 49.3 | 49.1 | 48.8 | 48.4 | 48.1 | 47.8 | 47.5 | 47.2 | .8 |
| 16 | 50.0 | 49.7 | 49.4 | 49.2 | 48.9 | 48.6 | 48.2 | 47.9 | 47.6 | 47.3 | 47.0 | 16 |
| .2 | 49.8 | 49.5 | 49.2 | 48.9 | 48.7 | 48.4 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | .2 |
| .4 | 49.6 | 49.3 | 49.0 | 48.7 | 48.5 | 48.2 | 47.8 | 47.5 | 47.2 | 46.9 | 46.6 | .4 |
| .6 | 49.4 | 49.1 | 48.8 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.0 | 46.7 | 46.4 | .6 |
| .8 | 49.2 | 48.9 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | 46.5 | 46.2 | .8 |
| 17 | 49.0 | 48.7 | 48.4 | 48.1 | 47.8 | 47.5 | 47.2 | 46.9 | 46.6 | 46.3 | 46.0 | 17 |
| .2 | 48.8 | 48.5 | 48.2 | 47.9 | 47.6 | 47.3 | 47.0 | 46.7 | 46.4 | 46.1 | 45.8 | .2 |
| .4 | 48.6 | 48.3 | 48.0 | 47.7 | 47.4 | 47.1 | 46.8 | 46.5 | 46.2 | 45.9 | 45.6 | .4 |
| .6 | 48.3 | 48.1 | 47.8 | 47.5 | 47.1 | 46.8 | 46.6 | 46.3 | 46.0 | 45.7 | 45.4 | .6 |
| .8 | 48.1 | 47.9 | 47.6 | 47.3 | 46.9 | 46.6 | 46.4 | 46.1 | 45.8 | 45.5 | 45.2 | .8 |
| 18 | 47.9 | 47.7 | 47.4 | 47.1 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 18 |
| .2 | 47.7 | 47.5 | 47.2 | 46.9 | 46.5 | 46.2 | 46.0 | 45.7 | 45.4 | 45.1 | 44.8 | .2 |
| .4 | 47.5 | 47.3 | 47.0 | 46.7 | 46.3 | 46.0 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | .4 |
| .6 | 47.3 | 47.0 | 46.7 | 46.4 | 46.1 | 45.9 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | .6 |
| .8 | 47.1 | 46.8 | 46.5 | 46.2 | 45.9 | 45.7 | 45.4 | 45.1 | 44.8 | 44.5 | 44.2 | .8 |
| 19 | 46.9 | 46.6 | 46.3 | 46.0 | 45.7 | 45.5 | 45.2 | 44 9 | 44.6 | 44.3 | 44.0 | 19 |
| .2 | 46.7 | 46.4 | 46.1 | 45.8 | 45.5 | 45.3 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | .2 |
| .4 | 46.5 | 46.2 | 45.9 | 45.6 | 45.3 | 45.1 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | .4 |
| .6 | 46.3 | 46.0 | 45.7 | 45.4 | 45.1 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | 43.3 | .6 |
| .8 | 46.1 | 45.8 | 45.5 | 45.2 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | .8 |
| 20 | 45.9 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 20 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 20 | 45.9 | 45.6 | 45.3 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 20 |
| .2 | 45.7 | 45.4 | 45.1 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | .2 |
| .4 | 45.5 | 45.2 | 44.9 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | 42.5 | .4 |
| .6 | 45.2 | 45.0 | 44.7 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.8 | 42.5 | 42.2 | .6 |
| .8 | 45.0 | 44.8 | 44.5 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.6 | 42.3 | 42.0 | .8 |
| 21 | 44.8 | 44.6 | 44.3 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | 42.4 | 42.1 | 41.8 | 21 |
| .2 | 44.6 | 44.4 | 44.1 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.2 | 41.9 | 41.6 | .2 |
| .4 | 44.4 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.0 | 41.7 | 41.4 | .4 |
| .6 | 44.2 | 43.9 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | .6 |
| .8 | 44.0 | 43.7 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 | 41.0 | .8 |
| 22 | 43.8 | 43.5 | 43.2 | 42.9 | 42.6 | 42.3 | 42.0 | 41.7 | 41.4 | 41.1 | 40.8 | 22 |
| .2 | 43.6 | 43.3 | 43.0 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | 40.9 | 40.6 | .2 |
| .4 | 43.4 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 | 41.0 | 40.7 | 40.4 | .4 |
| .6 | 43.1 | 42.8 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 | 41.0 | 40.7 | 40.4 | 40.1 | .6 |
| .8 | 42.9 | 42.6 | 42.3 | 42.0 | 41.7 | 41.4 | 41.1 | 40.8 | 40.5 | 40.2 | 39.9 | .8 |
| 23 | 42.7 | 42.4 | 42.1 | 41.8 | 41.5 | 41.2 | 40.9 | 40.6 | 40.3 | 40.0 | 39.7 | 23 |
| .2 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 | 41.0 | 40.7 | 40.4 | 40.1 | 39.8 | 39.5 | .2 |
| .4 | 42.3 | 42.0 | 41.7 | 41.4 | 41.1 | 40.8 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | .4 |
| .6 | 42.0 | 41.8 | 41.5 | 41.2 | 40.9 | 40.5 | 40.2 | 39.9 | 39.6 | 39.3 | 39.0 | .6 |
| .8 | 41.8 | 41.6 | 41.3 | 41.0 | 40.7 | 40.3 | 40.0 | 39.7 | 39.4 | 39.1 | 38.8 | .8 |
| 24 | 41.6 | 41.4 | 41.1 | 40.8 | 40.5 | 40.1 | 39.8 | 39.5 | 39.2 | 38.9 | 38.6 | 24 |
| .2 | 41.4 | 41.2 | 40.9 | 40.6 | 40.3 | 39.9 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | .2 |
| .4 | 41.2 | 41.0 | 40.7 | 40.4 | 40.1 | 39.7 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | .4 |
| .6 | 41.0 | 40.7 | 40.4 | 40.1 | 39.8 | 39.4 | 39.1 | 38.8 | 38.5 | 38.2 | 37.9 | .6 |
| .8 | 40.8 | 40.5 | 40.2 | 39.9 | 39.6 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | .8 |
| 25 | 40.6 | 40.3 | 40.0 | 39.7 | 39.4 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 25 |
| .2 | 40.4 | 40.1 | 39.8 | 39.5 | 39.2 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | .2 |
| .4 | 40.2 | 39.9 | 39.5 | 39.2 | 38.9 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | 37.0 | .4 |
| .6 | 39.9 | 39.9 | 39.3 | 39.0 | 38.7 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | .6 |
| .8 | 39.7 | 39.4 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.5 | .8 |
| 26 | 39.5 | 39.2 | 38.8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.3 | 26 |
| .2 | 39.3 | 39.0 | 38.6 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.1 | .2 |
| .4 | 39.0 | 38.7 | 38.4 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 35.9 | .4 |
| .6 | 38.8 | 38.5 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.6 | .6 |
| .8 | 38.5 | 38.2 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.4 | .8 |
| 27 | 38.3 | 38.0 | 37.7 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.2 | 27 |
| .2 | 38.1 | 37.8 | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.7 | 35.4 | 35.0 | .2 |
| .4 | 37.9 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.7 | 35.4 | 35.1 | 34.8 | .4 |
| .6 | 37.6 | 37.3 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | 35.2 | 34.9 | 34.5 | .6 |
| .8 | 37.4 | 37.1 | 36.8 | 36.5 | 36.2 | 35.9 | 35.6 | 35.2 | 34.9 | 34.6 | 34.3 | .8 |
| 28 | 37.2 | 36.9 | 36.6 | 36.3 | 36.0 | 35.7 | 35.4 | 35.0 | 34.7 | 34.4 | 34.1 | 28 |
| .2 | 37.0 | 36.7 | 36.4 | 36.1 | 35.8 | 35.5 | 35.2 | 34.8 | 34.5 | 34.2 | 33.9 | .2 |
| .4 | 36.8 | 36.5 | 36.2 | 35.9 | 35.5 | 35.2 | 34.9 | 34.6 | 34.3 | 33.9 | 33.6 | .4 |
| .6 | 36.5 | 36.2 | 35.9 | 35.6 | 35.3 | 35.0 | 34.7 | 34.3 | 34.0 | 33.7 | 33.4 | .6 |
| .8 | 36.3 | 36.0 | 35.7 | 35.4 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.4 | 33.1 | .8 |
| 29 | 36.1 | 35.8 | 35.5 | 35.2 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.2 | 32.9 | 29 |
| .2 | 35.9 | 35.6 | 35.3 | 35.0 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.0 | 32.7 | .2 |
| .4 | 35.6 | 35.3 | 35.0 | 34.7 | 34.4 | 34.1 | 33.8 | 33.4 | 33.1 | 32.7 | 32.4 | .4 |
| .6 | 35.4 | 35.1 | 34.8 | 34.5 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.5 | 32.2 | .6 |
| .8 | 35.1 | 34.8 | 34.5 | 34.2 | 33.9 | 33.6 | 33.3 | 32.9 | 32.6 | 32.2 | 31.9 | .8 |
| 30 | 34.9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.7 | 32.4 | 32.0 | 31.7 | 30 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 30 | 34 9 | 34.6 | 34.3 | 34.0 | 33.7 | 33.4 | 33.1 | 32.7 | 32.4 | 32.0 | 31.7 | 30 |
| .2 | 34.7 | 34.4 | 34.1 | 33.8 | 33.5 | 33.2 | 32.9 | 32.5 | 32.2 | 31.8 | 31.5 | .2 |
| .4 | 34.5 | 34.2 | 33.9 | 33.6 | 33.2 | 32.9 | 32.6 | 32.3 | 31.9 | 31.6 | 31.3 | .4 |
| .6 | 34.2 | 33.9 | 33.6 | 33.3 | 33.0 | 32.7 | 32.4 | 32.0 | 31.7 | 31.3 | 31.0 | .6 |
| .8 | 34.0 | 33.7 | 33.4 | 33.1 | 32.7 | 32.4 | 32.1 | 31.8 | 31.4 | 31.1 | 30.8 | .8 |
| 31 | 33.8 | 33.5 | 33.2 | 32.9 | 32.5 | 32.2 | 31.9 | 31.6 | 31.2 | 30.9 | 30.6 | 31 |
| .2 | 33.6 | 33·3 | 33.0 | 32.7 | 32.3 | 32.0 | 31.7 | 31.4 | 31.0 | 30.7 | 30.4 | .2 |
| .4 | 33.3 | 33.0 | 32.7 | 32.4 | 32.1 | 31.7 | 31.4 | 31.1 | 30.7 | 30.4 | 30.1 | .4 |
| .6 | 33.1 | 32.8 | 32.5 | 32.2 | 31.8 | 31.5 | 31.2 | 30.9 | 30.5 | 30.2 | 29.9 | .6 |
| .8 | 32.8 | 32.5 | 32.2 | 31.9 | 31.6 | 31.2 | 30.9 | 30.6 | 30.2 | 29.9 | 29.6 | .8 |
| 32 | 32.6 | 32.3 | 32.0 | 31.7 | 31.4 | 31.0 | 30.7 | 30.4 | 30.0 | 29.7 | 29.4 | 32 |
| .2 | 32.4 | 32.1 | 31.8 | 31.5 | 31.2 | 30.8 | 30.5 | 30.2 | 29.8 | 29.5 | 20.2 | .2 |
| .4 | 32.2 | 31.8 | 31.5 | 31.2 | 30.9 | 30.5 | 30 2 | 29.9 | 29.5 | 29.2 | 28.9 | .4 |
| .6 | 31.9 | 31.6 | 31.3 | 31.0 | 30.7 | 30.3 | 30.0 | 29.7 | 29.3 | 29.0 | 28.7 | .6 |
| .8 | 31.7 | 31.3 | 31.0 | 30.7 | 30.4 | 30.0 | 29.7 | 29.4 | 29.0 | 28.7 | 28.4 | .8 |
| 33 | 31.5 | 31.1 | 30.8 | 30.5 | 30.2 | 29.8 | 29.5 | 29.2 | 28.8 | 28.5 | 28.2 | 33 |
| .2 | 31.3 | 30.9 | 30.6 | 30.3 | 30.0 | 29.6 | 29.3 | 29.0 | 28.6 | 28.3 | 28.0 | .2 |
| .4 | 31.0 | 30.6 | 30.3 | 30.0 | 29.7 | 29.4 | 29.0 | 28.7 | 28.3 | 28.0 | 27.7 | .4 |
| .6 | 30.8 | 30.4 | 30.1 | 29.8 | 29.5 | 29.1 | 28.8 | 28.5 | 28.1 | 27.8 | 27.5 | .6 |
| .8 | 30.5 | 30.1 | 29.8 | 29.5 | 29.2 | 28.9 | 28.5 | 28.2 | 27.8 | 27.5 | 27.2 | .8 |
| 34 | 30.3 | 29.9 | 29.6 | 29.3 | 29.0 | 28.7 | 28.3 | 28.0 | 27.6 | 27.3 | 27.0 | 34 |
| .2 | 30.1 | 29.7 | 29.4 | 29.1 | 28.8 | 28.5 | 28.1 | 27.8 | 27.4 | 27.1 | 26.8 | .2 |
| .4 | 29.8 | 29.4 | 29.1 | 28.8 | 28.5 | 28.2 | 27.8 | 27.5 | 27.1 | 26.8 | 26.5 | .4 |
| .6 | 29.6 | 29.2 | 28.9 | 28.6 | 28.3 | 28.0 | 27.6 | 27.3 | 26.9 | 26.6 | 26.3 | .6 |
| .8 | 29.3 | 28.9 | 28.6 | 26.3 | 28.0 | 27.7 | 27.3 | 27.0 | 26.6 | 26.3 | 26.0 | .8 |
| 35 | 29.1 | 28.7 | 28.4 | 28.1 | 27.8 | 27.5 | 27.1 | 26.8 | 26.4 | 26.1 | 25.8 | 35 |
| .2 | 28.9 | 28.5 | 28.2 | 27.8 | 27.5 | 27.2 | 26.9 | 26.5 | 26.2 | 25.9 | 25.6 | .2 |
| .4 | 28.6 | 28.2 | 27.9 | 27.6 | 27.3 | 27.0 | 26.6 | 26.3 | 25.9 | 25.6 | 25.3 | .4 |
| .6 | 28.4 | 28.0 | 27.7 | 27.3 | 27.0 | 26.7 | 26.4 | 26.0 | 25.7 | 25.4 | 25.1 | .6 |
| .8 | 28.1 | 27.7 | 27.4 | 27.1 | 26.8 | 26.5 | 26.1 | 25.8 | 25.4 | 25.1 | 24.8 | .8 |
| 36 | 27.9 | 27.5 | 27.2 | 26.8 | 26.5 | 26.2 | 25.9 | 25.5 | 25.2 | 24.9 | 24.6 | 36 |
| .2 | 27.6 | 27.2 | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.3 | 24.9 | 24.6 | 24.3 | .2 |
| .4 | 27.4 | 27.0 | 26.7 | 26.3 | 26.0 | 25.7 | 25.4 | 25.0 | 24.7 | 24.4 | 24.1 | .4 |
| .6 | 27.1 | 26.7 | 26.4 | 26.1 | 25.8 | 25.5 | 25.2 | 24.8 | 24.4 | 24.1 | 23.8 | .6 |
| .8 | 26.9 | 26.5 | 26.2 | 25.8 | 25.5 | 25.2 | 24.9 | 24.5 | 24.3 | 23.9 | 23.6 | .8 |
| 37 | 26.6 | 26.2 | 25.9 | 25. 6 | 25.3 | 25.0 | 24.7 | 24.3 | 23.9 | 23.6 | 23.3 | 37 |
| .2 | 26.4 | 26.0 | 25.7 | 25.3 | 25.0 | 24.7 | 24.4 | 24.0 | 23.6 | 23.3 | 23.0 | .2 |
| .4 | 26.1 | 25.7 | 25.4 | 25.1 | 24.8 | 24.5 | 24.2 | 23.8 | 23.4 | 23.1 | 22.8 | .4 |
| .6 | 25.9 | 25.5 | 25.2 | 24.8 | 24.5 | 24.2 | 23.9 | 23.5 | 23.1 | 22.8 | 22.5 | .6 |
| .8 | 25.6 | 25.2 | 24.9 | 24.6 | 24.3 | 24.0 | 23.7 | 23.3 | 22.9 | 22.6 | 22.3 | .8 |
| 38 | 25.4 | 25.0 | 24.7 | 24.3 | 24.0 | 23.7 | 23.4 | 23.0 | 22.6 | 22.3 | 22.0 | 38 |
| .2 | 25.1 | 24.7 | 24.4 | 24.2 | 23.8 | 23.4 | 23.1 | 22.7 | 22.3 | 22.0 | 21.7 | .2 |
| .4 | 24.9 | 24.5 | 24.2 | 23.8 | 23.5 | 23.2 | 22.9 | 22.5 | 22.1 | 21.8 | 21.5 | .4 |
| .6 | 24.6 | 24.2 | 23.9 | 23.6 | 23.3 | 22 9 | 22.6 | 22.2 | 21.8 | 21.5 | 21.2 | .6 |
| .8 | 24.4 | 24.0 | 23.7 | 23.3 | 23.0 | 22.7 | 22.4 | 22.0 | 21.6 | 21.3 | 21.0 | .8 |
| 39 | 24.1 | 23.7 | 23.4 | 23.1 | 22.8 | 22.4 | 22.1 | 21.7 | 21.3 | 21. 0 | 20. 7 | 39 |
| .2 | 23.8 | 23.5 | 23.1 | 22.8 | 22.5 | 22.1 | 21.8 | 21.4 | 21.1 | 20.7 | 20.4 | .2 |
| .4 | 23.6 | 23.2 | 22.9 | 22.6 | 22.3 | 21.9 | 21.6 | 21.2 | 20.8 | 20.5 | 20.2 | .4 |
| .6 | 23.3 | 23.0 | 22.6 | 22.3 | 22.0 | 21.6 | 21.3 | 20.9 | 20.6 | 20.2 | 19.9 | .6 |
| .8 | 23.1 | 22.7 | 22.4 | 22.1 | 21.8 | 21.4 | 21.1 | 20.7 | 20.3 | 20.0 | 19.7 | .8 |
| 40 | 22.8 | 22.5 | 22.1 | 21.8 | 21.5 | 21.1 | 20.8 | 20.4 | 20.1 | 19.7 | 19.4 | 40 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 22.8 | 22.5 | 22.1 | 21.8 | 21.5 | 21.1 | 20.8 | 20.4 | 20.1 | 19.7 | 19.4 | 40 |
| .2 | 22.5 | 22.2 | 21.8 | 21.5 | 21.2 | 20.8 | 20.5 | 20.2 | 19.8 | 19.5 | 19.1 | .2 |
| .4 | 22.3 | 22.0 | 21.6 | 21.3 | 21.0 | 20.6 | 20.3 | 19.9 | 19.6 | 19.2 | 18.9 | .4 |
| .6 | 22.0 | 21.7 | 21.3 | 21.0 | 20.7 | 20.3 | 20.0 | 19.7 | 19.3 | 19.0 | 18.6 | .6 |
| .8 | 21.8 | 21.5 | 21.1 | 20.8 | 20.5 | 20.1 | 19.8 | 19.4 | 19.1 | 18.7 | 18.4 | .8 |
| 41 | 21.5 | 21.2 | 20.8 | 20.5 | 20.2 | 19.8 | 19.5 | 19.2 | 18.8 | 18.5 | 18.1 | 41 |
| .2 | 21.2 | 20.9 | 20.5 | 20.2 | 19.9 | 19.5 | 19.2 | 18.9 | 18.5 | 18.2 | 17.8 | .2 |
| .4 | 21.0 | 20.7 | 20.3 | 20.0 | 19.7 | 19.3 | 19.0 | 18.7 | 18.3 | 18.0 | 17.6 | .4 |
| .6 | 20.7 | 20.4 | 20.0 | 19.7 | 19.4 | 19.0 | 18.7 | 18.4 | 18.0 | 17.7 | 17.3 | .6 |
| .8 | 20.5 | 20.2 | 19.8 | 19.5 | 19.2 | 18.8 | 18.5 | 18.2 | 17.8 | 17.5 | 17.1 | .8 |
| 42 | 20.2 | 19.9 | 19.5 | 19.2 | 18.9 | 18.5 | 18.2 | 17.9 | 17.5 | 17.2 | 16.8 | 42 |
| .2 | 19.9 | 19.6 | 19.2 | 18.9 | 18.6 | 18.2 | 17.9 | 17.6 | 17.2 | 16.9 | 16.5 | .2 |
| .4 | 19.7 | 19.4 | 19.0 | 18.7 | 18.4 | 18.0 | 17.7 | 17.4 | 17.0 | 16.7 | 16.3 | .4 |
| .6 | 19.4 | 19.1 | 18.7 | 18.4 | 18.1 | 17.7 | 17.4 | 17.1 | 16.7 | 16.4 | 16.0 | .6 |
| .8 | 19.2 | 18.9 | 18.5 | 18.2 | 17.9 | 17.5 | 17.2 | 16.9 | 16.5 | 16.2 | 15.8 | .8 |
| 43 | 18.9 | 18.6 | 18.2 | 17.9 | 17.6 | 17.2 | 16.9 | 16.6 | 16.2 | 15.9 | 15.5 | 43 |
| .2 | 18.6 | 18.3 | 17.9 | 17.6 | 17.3 | 16.9 | 16.6 | 16.3 | 15.9 | 15.6 | 15.2 | .2 |
| .4 | 18.4 | 18.1 | 17.7 | 17.4 | 17.1 | 16.7 | 16.4 | 16.0 | 15.7 | 15.4 | 15.0 | .4 |
| .6 | 18.1 | 17.8 | 17.4 | 17.1 | 16.8 | 16.4 | 16.1 | 15.8 | 15.4 | 15.1 | 14.7 | .6 |
| .8 | 17.9 | 17.6 | 17.2 | 16.9 | 16.6 | 16.2 | 15.9 | 15.5 | 15.2 | 14.9 | 14.5 | .8 |
| 44 | 17.6 | 17.3 | 16.9 | 16.6 | 16.3 | 15.9 | 15.6 | 15.2 | 14.9 | 14.6 | 14.2 | 44 |
| .2 | 17.3 | 17.0 | 16.6 | 16.3 | 16.0 | 15.6 | 15.3 | 14.9 | 14.6 | 14.3 | 13.9 | .2 |
| .4 | 17.1 | 16.8 | 16.4 | 16.0 | 15.7 | 15.4 | 15.1 | 14.7 | 14.3 | 14.0 | 13.6 | .4 |
| .6 | 16.8 | 16.5 | 16.1 | 15.8 | 15.5 | 15.1 | 14.8 | 14.4 | 14.1 | 13.8 | 13.4 | .6 |
| .8 | 16.6 | 16.3 | 15.9 | 15.5 | 15.2 | 14.9 | 14.6 | 14.2 | 13.8 | 13.5 | 13.1 | .8 |
| 45 | 16.3 | 16.0 | 15.6 | 15.2 | 14.9 | 14.6 | 14.3 | 13.9 | 13.5 | 13.2 | 12.8 | 45 |
| .2 | 16.0 | 15.7 | 15.3 | 14.9 | 14.6 | 14.3 | 14.0 | 13.6 | 13.2 | 12.9 | 12.5 | .2 |
| .4 | 15.7 | 15.4 | 15.1 | 14.7 | 14.4 | 14.0 | 13.7 | 13.3 | 13.0 | 12.6 | 12.2 | .4 |
| .6 | 15.5 | 15.2 | 14.8 | 14.4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.7 | 12.4 | 12.0 | .6 |
| .8 | 15.2 | 14.9 | 14.6 | 14.2 | 13.9 | 13.5 | 13.2 | 12.8 | 12.5 | 12.1 | 11.7 | .8 |
| 46 | 14.9 | 14.6 | 14.3 | 13.9 | 13.6 | 13.2 | 12.9 | 12.5 | 12.2 | 11.8 | 11.4 | 46 |
| .2 | 14.6 | 14.3 | 14.0 | 13.6 | 13.3 | 12.9 | 12.6 | 12.2 | 11.9 | 11.5 | 11.1 | .2 |
| .4 | 14.4 | 14.0 | 13.7 | 13.3 | 13.0 | 12.6 | 12.3 | 11.9 | 11.6 | 11.2 | 10.9 | .4 |
| .6 | 14.1 | 13.8 | 13.5 | 13.1 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | 10.6 | .6 |
| .8 | 13.9 | 13.5 | 13.2 | 12.8 | 12.5 | 12.1 | 11.8 | 11.4 | 11.1 | 10.7 | 10.4 | .8 |
| 47 | 13.6 | 13.2 | 12.9 | 12.5 | 12.2 | 11 8 | 11.5 | 11.1 | 10.8 | 10.4 | 10.1 | 47 |
| .2 | 13.3 | 12.9 | 12.6 | 12.2 | 11.9 | 11.5 | 11.2 | 10.8 | 10.5 | 10.1 | 9.8 | .2 |
| .4 | 13.0 | 12.6 | 12.3 | 11.9 | 11.6 | 11.3 | 10.9 | 10.5 | 10.2 | 9.8 | 9.5 | .4 |
| .6 | 12.8 | 12.4 | 12.1 | 11.7 | 11.4 | 11.0 | 10.7 | 10.3 | 10.0 | 9.6 | 9.3 | .6 |
| .8 | 12.5 | 12.1 | 11.8 | 11.4 | 11.1 | 10.8 | 10.4 | 10.0 | 9.7 | 9.3 | 9.0 | .8 |
| 48 | 12.2 | 11.8 | 11.5 | 11.1 | 10.8 | 10.5 | 10.1 | 9.7 | 9.4 | 9.0 | 8.7 | 48 |
| .2 | 11.9 | 11.5 | 11.2 | 10.8 | 10.5 | 10.2 | 9.8 | 9.4 | 9.1 | 8.7 | 8.4 | .2 |
| .4 | 11.6 | 11.2 | 10.9 | 10.5 | 10.2 | 9.9 | 9.5 | 9.1 | 8.8 | 8.4 | 8.1 | .4 |
| .6 | 11.4 | 11.0 | 10.7 | 10.3 | 10.0 | 9.7 | 9.3 | 8.9 | 8.6 | 8.2 | 7.9 | .6 |
| .8 | 11.1 | 10.7 | 10.4 | 10.0 | 9.7 | 9.4 | 9.0 | 8.6 | 8.3 | 7.9 | 7.6 | .8 |
| 49 | 10.8 | 10.4 | 10.1 | 9.7 | 9.4 | 9.1 | 8.7 | 8.3 | 8.0 | 7.6 | 7.3 | 49 |
| .2 | 10.5 | 10.1 | 9.8 | 9.4 | 9.1 | 8.8 | 8.4 | 8.0 | 7.7 | 7.3 | 7.0 | .2 |
| .4 | 10.2 | 9.8 | 9.5 | 9.1 | 8.8 | 8.5 | 8.1 | 7.7 | 7.4 | 7.0 | 6.7 | .4 |
| .6 | 10.0 | 9.6 | 9.3 | 8.9 | 8.6 | 8.2 | 7.8 | 7.5 | 7.2 | 6.8 | 6.4 | .6 |
| .8 | 9.7 | 9 3 | 9.0 | 8.6 | 8.3 | 7.9 | 7.5 | 7.2 | 6.9 | 6.5 | 6.1 | .8 |
| 50 | 9.4 | 9.0 | 8.7 | 8.3 | 8.0 | 7.6 | 7.2 | 6.9 | 6.6 | 6.2 | 5.8 | 50 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 50 | 9.4 | 9.0 | 8.7 | 8.3 | 8.0 | 7.6 | 7.2 | 6.9 | 6.6 | 6.2 | 5.8 | 50 |
| .2 | 9.1 | 8.7 | 8.4 | 8.0 | 7.7 | 7.3 | 6.9 | 6.6 | 6.3 | 5.9 | 5.5 | .2 |
| .4 | 8.8 | 8.4 | 8.1 | 7.7 | 7.4 | 7.0 | 6.6 | 6.3 | 6.0 | 5.6 | 5.2 | .4 |
| .6 | 8.6 | 8.2 | 7.9 | 7.5 | 7.2 | 6.8 | 6.4 | 6.0 | 5.7 | 5.4 | 5.0 | .6 |
| .8 | 8.3 | 7.9 | 7.6 | 7.2 | 6.9 | 6.5 | 6.1 | 5.7 | 5.4 | 5.1 | 4.7 | .8 |
| 51 | 8.0 | 7.6 | 7.3 | 6.9 | 6.6 | 6.2 | 5.8 | 5.4 | 5.1 | 4.8 | 4.4 | 51 |
| .2 | 7.7 | 7.3 | 7.0 | 6.6 | 6.3 | 5.9 | 5.5 | 5.1 | 4 8 | 4.5 | 4.1 | .2 |
| .4 | 7.4 | 7.0 | 6.7 | 6.3 | 6.0 | 5.6 | 5.2 | 4.8 | 4.5 | 4.2 | 3.8 | .4 |
| .6 | 7.2 | 6.8 | 6.5 | 6.1 | 5.8 | 5.4 | 5.0 | 4.6 | 4.3 | 3.9 | 3.6 | .6 |
| .8 | 6.9 | 6.5 | 6.2 | 5.8 | 5.5 | 5.1 | 4.7 | 4.3 | 4.0 | 3.6 | 3.3 | .8 |
| 52 | 6.6 | 6.2 | 5.9 | 5.5 | 5.2 | 4.8 | 4.4 | 4.0 | 3.7 | 3.3 | 3.0 | 52 |
| .2 | 6.3 | 5.9 | 5.6 | 5.2 | 4.9 | 4.5 | 4.1 | 3.7 | 3.4 | 3.0 | 2.7 | .2 |
| .4 | 6.0 | 5.6 | 5.3 | 4.9 | 4.6 | 4.2 | 3.8 | 3.4 | 3.1 | 2.7 | 2.4 | .4 |
| .6 | 5.7 | 5.4 | 5.0 | 4.6 | 4.3 | 3.9 | 3.6 | 3.2 | 2.8 | 2.5 | 2.1 | .6 |
| .8 | 5.4 | 5.1 | 4.7 | 4.3 | 4.0 | 3.6 | 3.3 | 2.9 | 2.5 | 2.2 | 1.8 | .8 |
| 53 | 5.1 | 4.8 | 4.4 | 4.0 | 3.7 | 3.3 | 3.0 | 2.6 | 2.2 | 1.9 | 1.5 | 53 |
| .2 | 4.8 | 4.5 | 4·1 | 3.7 | 3.4 | 3.0 | 2.7 | 2.3 | 1.9 | 1.6 | 1.2 | .2 |
| .4 | 4.5 | 4.2 | 3.8 | 3.4 | 3.1 | 2.7 | 2.4 | 2.0 | 1.6 | 1.3 | .9 | .4 |
| .6 | 4.2 | 3.9 | 3.6 | 3.2 | 2.8 | 2.5 | 2.1 | 1.7 | 1.4 | 1.0 | .6 | .6 |
| .8 | 3.9 | 3.6 | 3.3 | 2.9 | 2.5 | 2.2 | 1.8 | 1.4 | 1.1 | .7 | .3 | .8 |
| 54 | 3.6 | 3.3 | 3.0 | 2.6 | 2.2 | 1.9 | 1.5 | 1.1 | 8. | .4 | 0 | 54 |
| .2 | 3.3 | 3.0 | 2.7 | 2.3 | 1.9 | 1.6 | 1.2 | .8 | .5 | .1 | .3 | .2 |
| .4 | 3.0 | 2.7 | 2.4 | 2.0 | 1.6 | 1.3 | .9 | .5 | .2 | .2 | .6 | .4 |
| .6 | 2.8 | 2.4 | 2·1 | 1.7 | 1.4 | 1.0 | .6 | .2 | .2 | .5 | .9 | .6 |
| .8 | 2.5 | 2.1 | 1.8 | 1.4 | 1.1 | .7 | .3 | .1 | .5 | .8 | 1.2 | .8 |
| 55 | 2.2 | 1.8 | 1.4 | 1.1 | .8 | 4. | 0 | .4 | 8. | 1.1 | 1.5 | 55 |
| .2 | 1.9 | 1.5 | 1.2 | .8 | .5 | .1 | .3 | .7 | 1.1 | 1.4 | 1.8 | .2 |
| .4 | 1.6 | 1.2 | .9 | .5 | .2 | .2 | .6 | 1.0 | 1.4 | 1.7 | 2.1 | .4 |
| .6 | 1.3 | .9 | .6 | .2 | .2 | .6 | .9 | 1.3 | 1.7 | 2.1 | 2.5 | .6 |
| .8 | 1.0 | .6 | .3 | .1 | .5 | .9 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | .8 |
| 56 | .7 | .3 | .0 | .4 | .8 | 1.2 | 1.5 | 1.9 | 2.3 | 2.7 | 3.1 | 56 |
| .2 | .4 | .0 | .3 | .7 | 1.1 | 1.5 | 1.8 | 2.2 | 2.6 | 3.0 | 3.4 | .2 |
| .4 | .1 | .3 | .6 | 1.0 | 1.4 | 1.8 | 2.1 | 2.5 | 2.0 | 3.3 | 3.7 | .4 |
| .6 | .3 | .6 | .9 | 1.3 | 1.7 | 2.1 | 2.5 | 2.8 | 3.2 | 3.6 | 4.0 | .6 |
| .8 | .6 | .9 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.1 | 3.5 | 3.9 | 4.3 | .8 |
| 57 | .9 | 1.2 | 1.5 | 1.9 | 2.3 | 2.7 | 3.1 | 3.4 | 3.8 | 4.2 | 4.6 | 57 |
| .2 | 1.2 | 1.5 | 1.8 | 2.2 | 2.6 | 3.0 | 3.4 | 3.7 | 4.1 | 4.5 | 4.9 | .2 |
| .4 | 1.5 | 1.8 | 2.2 | 2.5 | 2.9 | 3.3 | 3.7 | 4.0 | 4.4 | 4.8 | 5.2 | .4 |
| .6 | 1.8 | 2.2 | 2.5 | 2.9 | 3.2 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | .6 |
| .8 | 2.1 | 2.5 | 2.9 | 3.2 | 3.5 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | .8 |
| 58 | 2.4 | 2.8 | 3.2 | 3.5 | 3.8 | 4.2 | 4.6 | 5.0 | 5.4 | 5.8 | 6.2 | 58 |
| .2 | 2.7 | 3.1 | 3.5 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 6.1 | 6.5 | .2 |
| .4 | 3.0 | 3.4 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 6.1 | 6.4 | 6.8 | .4 |
| .6 | 3.3 | 3.7 | 4.1 | 4.5 | 4.8 | 5·2 | 5.6 | 6.0 | 6.4 | 6.8 | 7.2 | .6 |
| .8 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.4 | 6.8 | 7.1 | 7.5 | .8 |
| 59 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.3 | 6.7 | 7.1 | 7.4 | 7.8 | 59 |
| .2 | 4.2 | 4.6 | 5.0 | 5.4 | 5.8 | 6.2 | 6.6 | 7.0 | 7.4 | 7.7 | 8.1 | .2 |
| .4 | 4.6 | 5.0 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.7 | 8.1 | 8.5 | .4 |
| .6 | 4.9 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.7 | 8.1 | 8.4 | 8.8 | .6 |
| .8 | 5.3 | 5.7 | 6.0 | 6.4 | 6.8 | 7.2 | 7.6 | 8.0 | 8.4 | 8.8 | 9.2 | .8 |
| 60 | 5.6 | 6.0 | 6.3 | 6.7 | 7.1 | 7.5 | 7.9 | 8.3 | 8.7 | 9.1 | 9.5 | 60 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 60 | 5.6 | 6.0 | 6.3 | 6.7 | 7.1 | 7.5 | 7.9 | 8.3 | 8.7 | 9.1 | 9.5 | 60 |
| .2 | 5.9 | 6.3 | 6.6 | 7.0 | 7.4 | 7.8 | 8.2 | 8.6 | 9.0 | 9.4 | 9.8 | .2 |
| .4 | 6.2 | 6.6 | 6.9 | 7.3 | 7.7 | 8.1 | 8.5 | 8.9 | 9.3 | 9.7 | 10.2 | .4 |
| .6 | 6.6 | 7.0 | 7.3 | 7.7 | 8.1 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | .6 |
| .8 | 6.9 | 7.3 | 7.6 | 8.0 | 8.4 | 8.8 | 9.2 | 9.6 | 10.0 | 10.4 | 10.9 | .8 |
| 61 | 7.2 | 7.6 | 7.9 | 8.3 | 8.7 | 9.1 | 9.5 | 9.9 | 10.3 | 10.7 | 11.2 | 61 |
| .2 | 7.5 | 7.9 | 8.2 | 8.6 | 9.0 | 9.4 | 9.8 | 10.2 | 10.6 | 11.0 | 11.5 | .2 |
| .4 | 7.8 | 8.2 | 8.6 | 9.0 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.8 | .4 |
| .6 | 8.2 | 8.6 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.2 | .6 |
| .8 | 8.5 | 8.9 | 9.3 | 9.7 | 10.0 | 10.4 | 10.8 | 11.2 | 11.6 | 12.0 | 12.5 | .8 |
| 62 | 8.8 | 9.2 | 9.6 | 10.0 | 10.3 | 10.7 | 11.1 | 11.5 | 11.9 | 12.3 | 12.8 | 62 |
| .2 | 9.1 | 9.5 | 9.9 | 10.3 | 10.6 | 11.0 | 11.4 | 11.8 | 12.3 | 12.6 | 13.1 | .2 |
| .4 | 9.4 | 9.8 | 10.2 | 10.6 | 11.0 | 11.4 | 11.8 | 12.2 | 12.6 | 13.0 | 13.4 | .4 |
| .6 | 9.8 | 10.2 | 10.6 | 11.0 | 11.3 | 11.7 | 12.1 | 12.5 | 13.0 | 13.3 | 13.8 | .6 |
| .8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.5 | 12.9 | 13.3 | 13.7 | 14.1 | .8 |
| 63 | 10.4 | 10.8 | 11.2 | 11.6 | 12.0 | 12.4 | 12.8 | 13.2 | 13.7 | 14.0 | 14.4 | 63 |
| .2 | 10.7 | 11.1 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 14.0 | 14.3 | 14.7 | .2 |
| .4 | 11.1 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 13.9 | 14.3 | 14.7 | 15.1 | .4 |
| .6 | 11.4 | 11.8 | 12.2 | 12.6 | 13.0 | 13.4 | 13.8 | 14.2 | 14.7 | 15.0 | 15.4 | .6 |
| .8 | 11.8 | 12.2 | 12.6 | 13.0 | 13.4 | 13.8 | 14.2 | 14.6 | 15.0 | 15.4 | 15.8 | .8 |
| 64 | 12.1 | 12.5 | 12.9 | 13.3 | 13.7 | 14.1 | 14.5 | 14.9 | 15.3 | 15.7 | 16.1 | 64 |
| .2 | 12.4 | 12.8 | 13.2 | 13.6 | 14.0 | 14.4 | 14.8 | 15.2 | 15.7 | 16.1 | 16.5 | .2 |
| .4 | 12.8 | 13.2 | 13.6 | 14.0 | 14.4 | 14.8 | 15.2 | 15.6 | 16.0 | 16.4 | 16.8 | .4 |
| .6 | 13.1 | 13.5 | 13.9 | 14.3 | 14.7 | 15.1 | 15.5 | 15.9 | 16.4 | 16.8 | 17.2 | .6 |
| .8 | 13.5 | 13.9 | 14.3 | 14.7 | 15.1 | 15.5 | 15.9 | 16.3 | 16.7 | 17.1 | 17.5 | .8 |
| 65 | 13.8 | 14.2 | 14.6 | 15.0 | 15.4 | 15.8 | 16.2 | 16.6 | 17.1 | 17.5 | 17.9 | 65 |
| .2 | 14.1 | 14.6 | 15.0 | 15.4 | 15.8 | 16.2 | 16.6 | 17.0 | 17.5 | 17.9 | 18.3 | .2 |
| .4 | 14.5 | 14.9 | 15.3 | 15.7 | 16.1 | 16.5 | 16.9 | 17.3 | 17.8 | 18.2 | 18.6 | .4 |
| .6 | 14.8 | 15.3 | 15.7 | 16.1 | 16.5 | 16.9 | 17.3 | 17.7 | 18.2 | 18.6 | 19.0 | .6 |
| .8 | 15.2 | 15.6 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.5 | 18.9 | 19.3 | .8 |
| 66 | 15.5 | 16.0 | 16.4 | 16.8 | 17.2 | 17.6 | 18.0 | 18.4 | 18.9 | 19.3 | 19.7 | 66 |
| .2 | 15.9 | 16.4 | 16.8 | 17.5 | 17.6 | 18.0 | 18.4 | 18.8 | 19.3 | 19.7 | 20.1 | .2 |
| .4 | 16.2 | 16.7 | 17.1 | 17.2 | 17.9 | 18.3 | 18.7 | 19.1 | 19.6 | 20.0 | 20.5 | .4 |
| .6 | 16.6 | 17.1 | 17.5 | 17.9 | 18.3 | 18.7 | 19.1 | 19.5 | 20.0 | 20.4 | 20.8 | .6 |
| .8 | 16.9 | 17.4 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.3 | 20.7 | 21.2 | .8 |
| 67 | 17.3 | 17.8 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.7 | 21.1 | 21.6 | 67 |
| .2 | 17.7 | 18.2 | 18.6 | 19.0 | 19.4 | 19.8 | 20.2 | 20.6 | 21.1 | 21.5 | 22.0 | .2 |
| .4 | 18.1 | 18.5 | 18.9 | 19.3 | 19.8 | 20.2 | 20.6 | 20.9 | 21.4 | 21.8 | 22.3 | .4 |
| .6 | 18.4 | 18.9 | 19.3 | 19.7 | 20.1 | 20.5 | 20.9 | 21.3 | 21.8 | 22.2 | 22.7 | .6 |
| .8 | 18.8 | 19.2 | 19.6 | 20.0 | 20.5 | 20.9 | 21.3 | 21.6 | 22.1 | 22.5 | 23.0 | .8 |
| 68 | 19.2 | 19.6 | 20.0 | 20.4 | 20.9 | 21.3 | 21.7 | 22.0 | 22.5 | 22.9 | 23.4 | 68 |
| .2 | 19.6 | 20.0 | 20.4 | 20.8 | 21.3 | 21.7 | 22.1 | 22.4 | 22.9 | 23.3 | 23.8 | .2 |
| .4 | 20.0 | 20.4 | 20.8 | 21.2 | 21.6 | 22.0 | 22.4 | 22.8 | 23.3 | 23.7 | 24.2 | .4 |
| .6 | 20.3 | 20.7 | 21.1 | 21.5 | 22.0 | 22.4 | 22.8 | 23.1 | 23.6 | 24.0 | 24.5 | .6 |
| .8 | 20.7 | 21.1 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 24.0 | 24.4 | 24.9 | .8 |
| 69 | 21.1 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.4 | 24.8 | 25.3 | 69 |
| .2 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 | 24.3 | 24.8 | 25.2 | 25.7 | .2 |
| .4 | 21.8 | 22.2 | 22.6 | 23.1 | 23.5 | 23.9 | 24.3 | 24.7 | 25.2 | 25.6 | 26.1 | .4 |
| .6 | 22.2 | 22.6 | 23.0 | 23.4 | 23.8 | 24.2 | 24.6 | 25.0 | 25.5 | 25.9 | 26.4 | .6 |
| .8 | 22.5 | 22.9 | 23.3 | 23.8 | 24.2 | 24.6 | 25.0 | 25.4 | 25.9 | 26.3 | 26.8 | .8 |
| 70 | 22.9 | 23.3 | 23.7 | 24.2 | 24.6 | 25.0 | 25.4 | 25.8 | 26.3 | 26.7 | 27.2 | 70 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | 22.9 | 23.3 | 23.7 | 24.2 | 24.6 | 25.0 | 25.4 | 25.8 | 26.3 | 26.7 | 27.2 | 70 |
| .2 | 23.3 | 23.7 | 24.1 | 24.6 | 25.0 | 25.4 | 25.8 | 26.2 | 26.7 | 27.1 | 27.6 | .2 |
| .4 | 23.7 | 24.1 | 24.5 | 25.0 | 25.4 | 25.8 | 26.2 | 26.6 | 27.1 | 27.5 | 28.0 | .4 |
| .6 | 24.0 | 24.4 | 24.8 | 25.3 | 25.7 | 26.2 | 26.6 | 27.0 | 27.5 | 27.9 | 28.4 | .6 |
| .8 | 24.4 | 24.8 | 25.2 | 25.7 | 26.1 | 26.6 | 27.0 | 27.4 | 27.9 | 28.3 | 28.8 | .8 |
| 71 | 24.8 | 25.2 | 25.6 | 26.1 | 26.5 | 27.0 | 27.4 | 27.8 | 28.3 | 28.7 | 29.2 | 71 |
| .2 | 25.2 | 25.6 | 26.0 | 26.5 | 26.9 | 27.4 | 27.8 | 28.2 | 28.7 | 29.1 | 29.6 | .2 |
| .4 | 25.6 | 26.0 | 26.4 | 26.9 | 27.3 | 27.8 | 28.2 | 28.6 | 29.1 | 29.5 | 30.0 | .4 |
| .6 | 26.0 | 26.4 | 26.8 | 27.3 | 27.7 | 28.2 | 28.6 | 29.0 | 29.5 | 29.9 | 30.4 | .6 |
| .8 | 26.4 | 26.8 | 27.2 | 27.7 | 28.1 | 28.6 | 29.0 | 29.4 | 29.9 | 30.3 | 30.8 | .8 |
| 72 | 26.8 | 27.2 | 27.6 | 28.1 | 28.5 | 29.0 | 29.4 | 29.8 | 30.3 | 30.7 | 31.2 | 72 |
| .2 | 27.2 | 27.6 | 28.0 | 28.5 | 28.9 | 29.4 | 29.8 | 30.2 | 30.7 | 31.1 | 31.6 | .2 |
| .4 | 27.6 | 28.0 | 28.4 | 28.9 | 29.3 | 29.8 | 30.2 | 30.6 | 31.1 | 31.5 | 32.0 | .4 |
| .6 | 28.0 | 28.4 | 28.8 | 29.3 | 29.7 | 30.2 | 30.7 | 31.1 | 31.6 | 32.0 | 32.5 | .6 |
| .8 | 28.4 | 28.8 | 29.2 | 29.7 | 30.1 | 30.6 | 31.1 | 31.5 | 32.0 | 32.4 | 32.9 | .8 |
| 73 | 28.8 | 29.2 | 29.6 | 30.1 | 30.5 | 31.0 | 31.5 | 31.9 | 32.4 | 32.8 | 33.3 | 73 |
| .2 | 29.2 | 29.6 | 30.0 | 30.5 | 30.9 | 31.4 | 31.9 | 32.3 | 32.8 | 33.2 | 33.7 | .2 |
| .4 | 29.6 | 30.0 | 30.4 | 30.9 | 31.3 | 31.8 | 32.3 | 32.7 | 33.2 | 33.7 | 34.2 | .4 |
| .6 | 30.1 | 30.5 | 30.9 | 31.4 | 31.8 | 32.3 | 32.8 | 33.2 | 33.7 | 34.1 | 34.6 | .6 |
| .8 | 30.5 | 30.9 | 31.3 | 31.8 | 32.2 | 32.7 | 33.2 | 33.6 | 34.1 | 34.6 | 35.1 | .8 |
| 74 | 30.9 | 31.3 | 31.7 | 32.2 | 32.6 | 33.1 | 33.6 | 34.0 | 34.5 | 35.0 | 35.5 | 74 |
| .2 | 31.3 | 31.7 | 32.1 | 32.6 | 33.0 | 33.5 | 34.0 | 34.5 | 35.0 | 35.5 | 36.0 | .2 |
| .4 | 31.7 | 32.2 | 32.6 | 33.1 | 33.5 | 34.0 | 34.5 | 34.9 | 35.4 | 35.9 | 36.4 | .4 |
| .6 | 32.2 | 32.6 | 33.0 | 33.5 | 33.9 | 34.4 | 34.9 | 35.4 | 35.9 | 36.4 | 36.9 | .6 |
| .8 | 32.6 | 33.1 | 33.5 | 34.0 | 34.4 | 34.9 | 35.4 | 35.8 | 36.3 | 36.8 | 37.3 | .8 |
| 75 | 33.0 | 33.5 | 33.9 | 34.4 | 34.8 | 35.3 | 35.8 | 36.3 | 36.8 | 37.3 | 37.8 | 75 |
| .2 | 33.5 | 34.0 | 34.4 | 34.9 | 35.3 | 35.8 | 36.3 | 36.8 | 37.3 | 37.8 | 38.3 | .2 |
| .4 | 33.9 | 34.4 | 34.8 | 35.3 | 35.7 | 36.2 | 36.7 | 37.2 | 37.7 | 38.2 | 38.7 | .4 |
| .6 | 34.4 | 34.9 | 35.3 | 35.8 | 36.2 | 36.7 | 37.2 | 37.7 | 38.2 | 38.7 | 39.2 | .6 |
| .8 | 34.8 | 35.3 | 35.7 | 36.2 | 36.6 | 37.1 | 37.6 | 38.1 | 38.6 | 39.1 | 39.6 | .8 |
| 76 | 35.3 | 35.8 | 36.2 | 36.7 | 37.1 | 37.6 | 38.1 | 38.6 | 39.1 | 39.6 | 40.1 | 76 |
| .2 | 35.8 | 36.3 | 36.7 | 37.2 | 37.6 | 38.1 | 38.6 | 39.1 | 39.6 | 40.1 | 40.6 | .2 |
| .4 | 36.2 | 36.0 | 37.1 | 37.6 | 38.0 | 38.5 | 39.0 | 39.5 | 40.0 | 40.5 | 41.1 | .4 |
| .6 | 36.7 | 37.7 | 37.6 | 38.1 | 38.5 | 39.0 | 39.5 | 40.0 | 40.5 | 41.0 | 41.5 | .6 |
| .8 | 37.1 | 37.6 | 38.0 | 38.5 | 38.9 | 39.4 | 39.9 | 40.4 | 40.9 | 41.4 | 42.0 | .8 |
| 77 | 37.6 | 38.1 | 38.5 | 39.0 | 39.4 | 39.9 | 40.4 | 40.9 | 41.4 | 41.9 | 42.5 | 77 |
| .2 | 38.1 | 38.6 | 39.0 | 39.5 | 39.9 | 40.4 | 40.9 | 41.4 | 41.9 | 42.4 | 43.0 | .2 |
| .4 | 38.6 | 39.1 | 39.5 | 39.9 | 40.4 | 40.9 | 41.4 | 41.9 | 42.4 | 42.9 | 43.5 | .4 |
| .6 | 39.0 | 39.5 | 39.9 | 40.4 | 40.9 | 41.4 | 41.9 | 42.4 | 43.0 | 43.5 | 44.1 | .6 |
| .8 | 39.5 | 40.0 | 40.4 | 40.8 | 41.4 | 41.9 | 42.4 | 42.9 | 43.5 | 44.0 | 44.6 | .8 |
| 78 | 40.0 | 40.5 | 40.9 | 41.3 | 41.9 | 42.4 | 42.9 | 43.4 | 44.0 | 44.5 | 45.1 | 78 |
| .2 | 40.5 | 41.0 | 41.4 | 41.8 | 42.4 | 42.9 | 43.4 | 44.0 | 44.5 | 45.0 | 45.6 | .2 |
| .4 | 41.0 | 41.5 | 41.9 | 42.4 | 43.0 | 43.5 | 44.0 | 44.5 | 45.1 | 45.6 | 46.2 | .4 |
| .6 | 41.5 | 42.0 | 42.5 | 42.9 | 43.5 | 44.0 | 44.5 | 45.1 | 45.6 | 46.1 | 46.7 | .6 |
| .8 | 42.0 | 42.5 | 43.0 | 43.5 | 44.1 | 44.6 | 45.1 | 45.6 | 46.2 | 46.7 | 47.3 | .8 |
| 79 | 42.5 | 43.0 | 43.5 | 44.0 | 44.6 | 45.1 | 45.6 | 46.2 | 46.7 | 47.2 | 47.8 | 79 |
| .2 | 43.1 | 43.6 | 44.1 | 44.6 | 45.1 | 45.6 | 46.2 | 46.7 | 47.2 | 47.7 | 48.3 | .2 |
| .4 | 43.6 | 44.1 | 44.6 | 45.1 | 45.7 | 46.2 | 46.7 | 47.3 | 47.8 | 48.3 | 48.8 | .4 |
| .6 | 44.2 | 44.7 | 45.2 | 45.7 | 46.2 | 46.7 | 47.3 | 47.8 | 48.3 | 48.8 | 49.4 | .6 |
| .8 | 44.7 | 45.2 | 45.7 | 46.2 | 46.8 | 47.3 | 47.8 | 48.4 | 48.9 | 49.4 | 49.9 | .8 |
| 80 | 45.3 | 45.8 | 46.3 | 46.8 | 47.3 | 47.8 | 48.4 | 48.9 | 49.4 | 49.9 | 50.4 | 80 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |

TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer.



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 80 | 45.3 | 45.8 | 46.3 | 46.8 | 47.3 | 47.8 | 48.4 | 48.9 | 49.4 | 49.9 | 50.4 | 80 |
| .2 | 45.8 | 46.3 | 46.8 | 47.4 | 47.8 | 48.3 | 48.9 | 49.4 | 49.9 | 50.4 | 50.8 | .2 |
| .4 | 46.4 | 46.9 | 47.4 | 47.9 | 48.4 | 48.8 | 49.4 | 49.9 | 50.4 | 50.8 | 51.3 | .4 |
| .6 | 46.9 | 47.4 | 47.9 | 48.5 | 48.9 | 49.4 | 49.9 | 50.4 | 50.8 | 51.3 | 51.7 | .6 |
| .8 | 47.5 | 48.0 | 48.5 | 49.0 | 49.5 | 49.9 | 50.4 | 50.9 | 51.3 | 51.7 | 52.2 | .8 |
| 81 | 48.0 | 48.5 | 49.0 | 49.6 | 50.0 | 50.4 | 50.9 | 51.4 | 51.8 | 52.2 | 52.6 | 81 |
| .2 | 48.6 | 49.0 | 49.5 | 50.1 | 50.5 | 50.9 | 51.4 | 51.9 | 52.3 | 52.7 | 53.1 | .2 |
| .4 | 49.1 | 49.6 | 50.0 | 50.6 | 51.0 | 51.4 | 51.9 | 52.3 | 52.7 | 53.1 | 53.5 | .4 |
| .6 | 49.7 | 50.1 | 50.6 | 51.1 | 51.5 | 51.9 | 52.3 | 52.8 | 53.2 | 53.6 | 54.0 | .6 |
| .8 | 50.2 | 50.7 | 51.1 | 51.6 | 52.0 | 52.4 | 52.8 | 53.2 | 53.6 | 54.0 | 54.4 | .8 |
| 82 | 50.8 | 51.2 | 51.6 | 52.1 | 52.5 | 52.9 | 53.3 | 53.7 | 54.1 | 54.5 | 54.9 | 82 |
| .2 | 51.3 | 51.7 | 52.1 | 52.6 | 53.0 | 53.4 | 53.8 | 54.2 | 54.6 | 55.0 | 55.4 | .2 |
| .4 | 51.8 | 52.2 | 52.6 | 53.1 | 53.5 | 53.9 | 54.3 | 54.7 | 55.1 | 55.5 | 55.9 | .4 |
| .6 | 52.4 | 52.8 | 53.2 | 53.6 | 54.0 | 54.4 | 54.7 | 55.1 | 55.5 | 55.9 | 56.3 | .6 |
| .8 | 52.9 | 53.3 | 53.7 | 54.1 | 54.5 | 54.9 | 55.2 | 55.6 | 56.0 | 56.4 | 56.8 | .8 |
| 83 | 53.4 | 53.8 | 54.2 | 54.6 | 55.0 | 55.4 | 55.7 | 56.1 | 56.5 | 56.9 | 57.3 | 83 |
| .2 | 53.9 | 54.3 | 54.7 | 55.1 | 55.5 | 55.9 | 56.2 | 56.6 | 57.0 | 57.4 | 57.8 | .2 |
| .4 | 54.5 | 54.9 | 55.3 | 55.7 | 56.0 | 56.4 | 56.7 | 57.1 | 57.5 | 57.9 | 58.3 | .4 |
| .6 | 55.0 | 55.4 | 55.8 | 56.2 | 56.6 | 57.0 | 57.3 | 57.7 | 58.0 | 58.4 | 58.7 | .6 |
| .8 | 55.6 | 56.0 | 56.4 | 56.8 | 57.1 | 57.5 | 57.8 | 58.2 | 58.5 | 58.9 | 59.2 | .8 |
| 84 | 56.1 | 56.5 | 56.9 | 57.3 | 57.6 | 58.0 | 58.3 | 58.7 | 59.0 | 59.4 | 59.7 | 84 |
| .2 | 56.7 | 57.1 | 57.5 | 57.9 | 58.2 | 58.6 | 58.9 | 59.3 | 59.6 | 59.9 | 60.3 | .2 |
| .4 | 57.3 | 57.7 | 58.1 | 58.4 | 58.8 | 59.1 | 59.4 | 59.8 | 60.1 | 60.5 | 60.8 | .4 |
| .6 | 57.9 | 58.3 | 58.6 | 59.0 | 59.3 | 59.7 | 60.0 | 60.4 | 60.7 | 61.0 | 61.4 | .6 |
| .8 | 58.5 | 58.9 | 59.2 | 59.5 | 59.9 | 60.2 | 60.5 | 60.9 | 61.2 | 61.6 | 61.9 | .8 |
| 85 | 59.1 | 59.5 | 59.8 | 60.1 | 60.5 | 60.8 | 61.1 | 61.5 | 61.8 | 62.1 | 62.5 | 85 |
| .2 | 59.7 | 60.1 | 60.4 | 60.7 | 61.1 | 61.4 | 61.7 | 62.1 | 62.4 | 62.7 | 63.1 | .2 |
| .4 | 60.3 | 60.7 | 61.0 | 61.3 | 61.7 | 62.0 | 62.3 | 62.7 | 63.0 | 63.3 | 63.7 | .4 |
| .6 | 61.0 | 61.4 | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.3 | 63.6 | 63.9 | 64.2 | .6 |
| .8 | 61.6 | 62.0 | 62.3 | 62.6 | 62.9 | 63.2 | 63.5 | 63.9 | 64.2 | 64.5 | 64.8 | .8 |
| 86 | 62.2 | 62.6 | 62.9 | 63.2 | 63.5 | 63.8 | 64.1 | 64.5 | 64.8 | 65.1 | 65.4 | 86 |
| .2 | 62.8 | 63.2 | 63.5 | 63.8 | 64.1 | 64.4 | 64.7 | 65.1 | 65.4 | 65.7 | 66.0 | .2 |
| .4 | 63.5 | 63.8 | 64.1 | 64.4 | 64.7 | 65.0 | 65.3 | 65.7 | 66.0 | 66.3 | 66.6 | .4 |
| .6 | 64.1 | 64.5 | 64.8 | 65.1 | 65.4 | 65.7 | 65.9 | 66.2 | 66.5 | 66.8 | 67.1 | .6 |
| .8 | 64.8 | 65.1 | 65.4 | 65.7 | 66.0 | 66.3 | 66.5 | 66.8 | 67.1 | 67.4 | 67.7 | .8 |
| 87 | 65.4 | 65.7 | 66.0 | 66.3 | 66.6 | 66.9 | 67.1 | 67.4 | 67.7 | 68.0 | 68.3 | 87 |
| .2 | 66.0 | 66.3 | 66.6 | 66.9 | 67.2 | 67.5 | 67.7 | 68.0 | 68.3 | 68.6 | 68.9 | .2 |
| .4 | 66.7 | 66.9 | 67.2 | 67.5 | 67.8 | 68.1 | 68.3 | 68.6 | 68.9 | 69.2 | 69.5 | .4 |
| .6 | 67.3 | 67.6 | 67.9 | 68.2 | 68.4 | 68.7 | 69.0 | 69.2 | 69.5 | 69.7 | 70.0 | .6 |
| .8 | 68.0 | 68.2 | 68.5 | 68.8 | 69.0 | 69.3 | 69.6 | 69.8 | 70.1 | 70.3 | 70.6 | .8 |
| 88 | 68.6 | 68.8 | 69.1 | 69.4 | 69.6 | 69.9 | 70.2 | 70.4 | 70.7 | 70.9 | 71.2 | 88 |
| .2 | 69.2 | 69.4 | 69.7 | 70.0 | 70.2 | 70.5 | 70.8 | 71.0 | 71.3 | 71.5 | 71.8 | .2 |
| .4 | 69.8 | 70.1 | 70.3 | 70.6 | 70.9 | 71.1 | 71.4 | 71.6 | 71.9 | 72.1 | 72.4 | .4 |
| .6 | 70.5 | 70.7 | 71.0 | 71.3 | 71.5 | 71.8 | 72.1 | 72.3 | 72.6 | 72.8 | 73.1 | .6 |
| .8 | 71.1 | 71.4 | 71.6 | 71.9 | 72.2 | 72.4 | 72.7 | 72.9 | 73.2 | 73.4 | 73.7 | .8 |
| 89 | 71.7 | 72.0 | 72.2 | 72.5 | 72.8 | 73.0 | 73.3 | 73.5 | 73.8 | 74.0 | 74.3 | 89 |
| .2 | 72.4 | 72.6 | 72.8 | 73.1 | 73.4 | 73.6 | 73.9 | 74.1 | 74.4 | 74.6 | 74.9 | .2 |
| .4 | 73.0 | 73.3 | 73.5 | 73.7 | 74.0 | 74.2 | 74.5 | 74.7 | 75.0 | 75.2 | 75.5 | .4 |
| .6 | 73.7 | 73.9 | 74.1 | 74.4 | 74.6 | 74.9 | 75.1 | 75.3 | 75.5 | 75.8 | 76.0 | .6 |
| .8 | 74.3 | 74.6 | 74.8 | 75.0 | 75.2 | 75.5 | 75.7 | 75.9 | 76.1 | 76.4 | 76.6 | .8 |
| 90 | 75.0 | 75.2 | 75.4 | 75.6 | 75.8 | 76.1 | 76.3 | 76.5 | 76.7 | 77.0 | 77.2 | 90 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT's Thermometer. | | | | | | | | | | | |



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| INDICATION. | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | INDICATION. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | |
| 90 | 75.0 | 75.2 | 75.4 | 75.6 | 75.8 | 76.1 | 76.3 | 76.5 | 76.7 | 77.0 | 77.2 | 90 |
| .2 | 75.6 | 75.8 | 76.0 | 76.2 | 76.4 | 76.7 | 76.9 | 77.1 | 77.3 | 77.6 | 77.8 | .2 |
| .4 | 76.2 | 76.4 | 76.6 | 76.8 | 77.0 | 77.3 | 77.5 | 77.7 | 77.9 | 78.1 | 78.3 | .4 |
| .6 | 76.8 | 77.0 | 77.2 | 77.4 | 77.6 | 77.8 | 78.0 | 78.2 | 78.4 | 78.7 | 78.9 | .6 |
| .8 | 77.4 | 77.6 | 77.8 | 78.0 | 78.2 | 78.4 | 78.6 | 78.8 | 79.0 | 79.2 | 79.4 | .8 |
| 91 | 78.0 | 78.2 | 78.4 | 78.6 | 78.8 | 79.0 | 79.2 | 79.4 | 79.6 | 79.8 | 80.0 | 91 |
| .2 | 78.6 | 78.8 | 79.0 | 79.2 | 79.4 | 79.6 | 79.8 | 80.0 | 80.2 | 80.4 | 80.6 | .2 |
| .4 | 79.2 | 79.4 | 79.6 | 79.8 | 80.0 | 80.2 | 80.4 | 80.6 | 80.8 | 80.9 | 81.1 | .4 |
| .6 | 79.7 | 79.9 | 80.1 | 80.3 | 80.5 | 80.7 | 80.9 | 81.1 | 81.3 | 81.5 | 81.7 | .6 |
| .8 | 80.3 | 80.5 | 80.7 | 80.9 | 81.1 | 81.3 | 81.5 | 81.7 | 81.9 | 82.0 | 82.2 | .8 |
| 92 | 80.9 | 81.1 | 81.3 | 81.5 | 81.7 | 81.9 | 82.1 | 82.3 | 82.5 | 82.6 | 82.8 | 92 |
| .2 | 81.5 | 81.7 | 81.9 | 82.1 | 82.3 | 82.5 | 82.6 | 82.8 | 83.0 | 83.2 | 83.4 | .2 |
| .4 | 82.1 | 82.3 | 82.5 | 82.6 | 82.8 | 83.0 | 83.2 | 83.4 | 83.6 | 83.7 | 83.9 | .4 |
| .6 | 82.6 | 82.8 | 83.0 | 83.2 | 83.4 | 83.6 | 83.7 | 83.9 | 84.1 | 84.3 | 84.5 | .6 |
| .8 | 83.2 | 83.4 | 83.6 | 83.7 | 83.9 | 84.1 | 84.3 | 84.5 | 84.7 | 84.8 | 85.0 | .8 |
| 93 | 83.8 | 84.0 | 84.2 | 84.3 | 84.5 | 84.7 | 84.8 | 85.0 | 85.2 | 85.4 | 85.6 | 93 |
| .2 | 84.4 | 84.6 | 84.7 | 84.9 | 85.0 | 85.2 | 85.4 | 85 5 | 85.7 | 85.9 | 86.1 | .2 |
| .4 | 84.9 | 85.1 | 85.3 | 85.4 | 85.6 | 85.8 | 85.9 | 86.1 | 86.3 | 86.5 | 86.7 | .4 |
| .6 | 85.5 | 85.7 | 85.8 | 86.0 | 86.1 | 86.3 | 86.5 | 86.6 | 86.8 | 87.0 | 87.2 | .6 |
| .8 | 86.0 | 86.2 | 86.4 | 86.5 | 86.7 | 86.9 | 87.0 | 87.2 | 87.4 | 87.6 | 87.8 | .8 |
| 94 | 86.6 | 86.8 | 86 9 | 87.1 | 87.2 | 87.4 | 87.6 | 87.7 | 87.9 | 88.1 | 88.3 | 94 |
| .2 | 87.1 | 87.3 | 87.4 | 87.6 | 87.7 | 87.9 | 88.1 | 88.2 | 88.4 | 88.6 | 88.8 | .2 |
| .4 | 87.7 | 87.9 | 88.0 | 88.1 | 88.3 | 88.4 | 88.6 | 88.8 | 88.9 | 89.1 | 89.3 | .4 |
| .6 | 88.2 | 88.4 | 88.5 | 88.7 | 88.8 | 89.0 | 89.2 | 89.3 | 89.5 | 89.7 | 89.9 | .6 |
| .8 | 88.8 | 89.0 | 89.1 | 89.2 | 89.4 | 89.5 | 89.7 | 89.9 | 90.0 | 90.2 | 90.4 | .8 |
| 95 | 89.3 | 89.5 | 89.6 | 89,7 | 89,9 | 90.0 | 90.2 | 90.4 | 90.5 | 90.7 | 90,9 | 95 |
| .2 | 89.8 | 90.0 | 90.1 | 90.2 | 90.4 | 90.5 | 90.7 | 90.9 | 91.0 | 91.2 | 91.4 | .2 |
| .4 | 90.3 | 90.5 | 90.6 | 90.7 | 90.9 | 91.0 | 91.2 | 91.4 | 91.5 | 91.7 | 91.9 | .4 |
| .6 | 90.9 | 91.0 | 91.2 | 91.3 | 91.5 | 91.6 | 91.8 | 91.9 | 92.1 | 92.2 | 92.4 | .6 |
| .8 | 91.4 | 91.5 | 91.7 | 91.8 | 92.0 | 92.1 | 92.3 | 92.4 | 92.6 | 92.7 | 92.9 | .8 |
| 96 | 91,9 | 92.0 | 92,2 | 92.3 | 92.5 | 92.6 | 92.8 | 92.9 | 93.1 | 93.2 | 93.4 | 96 |
| .2 | 92.4 | 92.5 | 92.7 | 92.8 | 93.0 | 93.1 | 93.3 | 93.4 | 93.6 | 93.7 | 93.9 | .2 |
| .4 | 92.9 | 93.0 | 93.2 | 93.3 | 93.5 | 93.6 | 93.8 | 93.9 | 94.1 | 94.2 | 94.4 | .4 |
| .6 | 93.4 | 93.5 | 93.7 | 93.8 | 93.9 | 94.1 | 94.2 | 94.3 | 94.5 | 94.6 | 94.8 | .6 |
| .8 | 93.9 | 94.0 | 94.2 | 94.3 | 94.4 | 94.6 | 94.7 | 94.8 | 95.0 | 95.1 | 95.3 | .8 |
| 97 | 94.4 | 94.5 | 94.7 | 94.8 | 94.9 | 95.1 | 95.2 | 95.3 | 95.5 | 95.6 | 95.8 | 97 |
| .2 | 94.9 | 95.0 | 95.2 | 95.3 | 95.4 | 95.6 | 95.7 | 95.8 | 96.0 | 96.1 | 96.3 | .2 |
| .4 | 95.4 | 95.5 | 95.7 | 95.8 | 95.9 | 96.1 | 96.2 | 96.3 | 96.5 | 96.6 | 96.8 | .4 |
| .6 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.5 | 96.6 | 96.7 | 96.9 | 97.0 | 97.2 | .6 |
| .8 | 96.4 | 96.5 | 96.6 | 96.7 | 96.8 | 97.0 | 97.1 | 97.2 | 97.4 | 97.5 | 97.7 | .8 |
| 98 | 96.9 | 97.0 | 97.1 | 97.2 | 97.3 | 97.5 | 97.6 | 97.7 | 97.9 | 98.0 | 98.2 | 98 |
| .2 | 97.4 | 97.5 | 97.6 | 97.7 | 97.8 | 98.0 | 98.1 | 98.2 | 98.3 | 98.5 | 98.6 | .2 |
| .4 | 97.8 | 97.9 | 98.0 | 98.1 | 98.2 | 98.4 | 98.5 | 98.6 | 98.8 | 98.9 | 99.1 | .4 |
| .6 | 98.3 | 98.4 | 98.5 | 98.6 | 98.7 | 98.9 | 99.0 | 99.1 | 99.2 | 99.4 | 99.5 | .6 |
| .8 | 98.7 | 98.8 | 98.9 | 99.0 | 99.1 | 99.3 | 99.4 | 99.5 | 99.7 | 99.8 | 100.0 | .8 |
| 99 | 99.2 | 99.3 | 99.4 | 99.5 | 99.6 | 99.8 | 99.9 | 100.0 | — | — | — | 99 |
| .2 | 99.6 | 99.7 | 99.8 | 99.9 | 100.0 | — | — | — | — | — | — | .2 |
| .4 | — | — | — | — | — | — | — | — | — | — | — | .4 |
| .6 | — | — | — | — | — | — | — | — | — | — | — | .6 |
| .8 | — | — | — | — | — | — | — | — | — | — | — | .8 |
| 100 | — | — | — | — | — | — | — | — | — | — | — | 100 |
| INDICATION. | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | INDICATION. |
| | TEMPERATURE OF THE SPIRITS by FAHRENHEIT'S Thermometer. | | | | | | | | | | | |



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# DIRECTIONS

FOR THE

# COMPARATIVE RULE,

AS CORRECTLY APPLIED TO

# SIKES'S HYDROMETER.

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THE Slide contains the Strength of the Spirits from 70 per cent. Over Proof, to 70 per cent. Under Proof, and the lines A. B. show the Comparative VALUES of those Strengths in Shillings and Pence, thus,

## EXAMPLES.

Suppose Proof Spirit to be worth 15*s.* per gallon, and it be required to know the value of any other Strength accordingly, set PROOF to 15 on the line A, and that line becomes a Table of the proportionate value of any other Strength there shown: 20 per cent. O. P. being = 18*s.* per gallon; 40 O. P. = 21*s.*, and 60 O. P. = 24*s.*; 20 per cent. U. P. = 12*s.* per gallon; 40 U. P. = 9*s.*; 10 U. P. = 13*s.* 6*d.*, and 15 U. P. = 12*s.* 9*d.* per gallon.

Or, suppose 20 per cent. O. P. worth 20*s.* per gallon, set 20 O. P. to 20 on the line A, then 50 O. P. is = 25*s.* per gallon; 45 O.P. = 24*s.* 2*d.*; 40 O. P. = 23*s.* 4*d.*; 30 O.P. = 21*s.* 8*d.*; 10 O.P. = 18*s.* 4*d.* Proof is = 16*s.* 8*d.*; 10 U.P. = 15*s.*; 25 U. P. = 12*s.* 6*d.*; 40 U. P. = 10*s.*, and 50 U. P. = 8*s.* 4*d.* per gallon.

Or, lastly, suppose 10 per cent. U. P. worth 9*s.* per gallon, set that Strength to 9 upon the line A, then Proof is 10*s.* per gallon, 10 O. P. = 11*s.*; 20 = 12*s.*; 30 = 13*s.*, &c., 20 U.P. = 8*s.*; and (as for further U. P. Strengths, we must observe in all cases to bring whatever Strength is opposite 8 on the line A, to correspond with 8 upon the line B) this 20 U. P. being set to 8 upon the line B, shows 30 U. P. to be 7*s.* per gallon; 40 U.P. = 6*s.*; 50 U. P. = 5*s.*; and 65 U. P. = 3*s.* 6*d.* per gallon.

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THE lines C. D. show the Comparative QUANTITIES of Spirits with reference to their Strengths upon the Slide, thus :—

## EXAMPLES.

If it be required to know what quantity of Proof Spirit, or of any other Strength, is contained in 100 gallons of 20 per cent. O. P., set that Strength upon the Slide to 100 on the line C, and that line shows the quantity of every inferior Strength which the said 100 gallons would produce on reduction; the quantity of Proof being 120 gallons, of 40 U. P. 200, and of 60 U. P. 300 gallons. And with respect to superior Strengths, it may be also seen that 90 gallons of 33.3 O. P.; 80 gallons of 50 O. P.; 75 of 60 O. P., and 70.6 gallons of 70 O. P., would produce the said 100 gallons of 20 per cent. O. P., on reduction.

Or, if it be required to know what quantity of any Strength is necessary to be taken to make 120 gallons of 17 per cent. U. P., set that Strength to 120 on the line C, and it will be seen that 110.7 gallons of 10 U. P. Strength; 100 gallons of .5 U. P.; 94 gallons of 6 O. P.; 85 gallons of 17.1 O. P.; 76.6 gallons of 30 O. P.; 70 gallons of 42.2 O. P.; 64 gallons of 55.6 O. P., and 60 gallons of 66 O. P. must be taken.

And lastly, if it be required to make up 60 gallons of 35 per cent. U. P., set that Strength to 60 on the line D, and it will be found that 50 gallons of 22 U. P.; 43.3 gallons of 10 U. P.; 39 gallons of Proof Spirit; 30 of 30 per cent. O. P.; 26 of 50 O. P.; 24 gallons of 62.5 O. P., and in the same manner is found the quantity of any other Strength which will be required.

Printed for J. D. Potter, 31, Poultry, Hydrometer and Sacchrometer Manufacturer.

YATES AND ALEXANDER, PRINTERS, HORSESHOE COURT, LUDGATE HILL, LONDON, E.C.

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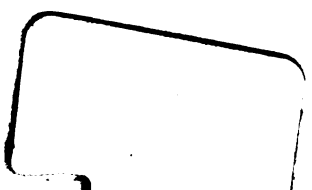

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